Yorkville

Full Line Pro Audio & Installation Product Catalog

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# élite Series Loudspeakers and Subwoofers

Yorkville's élite series loudspeaker systems are the result of years of research, pushing the limits of modern state-of-the-art sound reinforcement technology. Engineered for the serious pro audio user, élite systems are among the most advanced, most versatile and most efficient high powered portable P.A. boxes available.

Today's élite Series Cabinets, from the highly efficient two-way E10 to the 1500-watt E2152 incorporate the most advanced component protection and crossover technology available today. They have been carefully designed to bring you the latest in Yorkville's advanced loudspeaker engineering.

## Innovative Component Protection

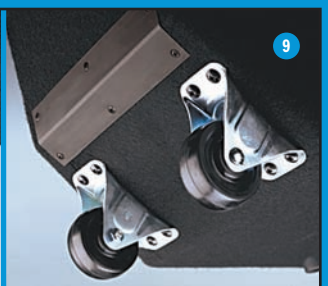
Depending on power handling and choice of components used in the loudspeaker, not all protection systems are created equal. élite loudspeakers use a combination of proven protection schemes to ensure maximum reliability, regardless of the application.

Select élite full range cabinets feature seamless driver interaction through sophisticated high-slope passive networks and the CTL™ (Current-To-Light) protection scheme. This scheme allows continued operation by absorbing excess signal in a standard automotive light bulb, thus preventing HF driver failure. In extreme conditions, the low-cost light bulb will burn out before harmful current can damage expensive driver components.

Yorkville's proven PTC™ high frequency protection is employed in some higher-powered élite models. PTC™ is an ingenious current sensing / self-resetting breaker that offers some serious advantages over current protection schemes used in many loudspeaker cabinets. This protection scheme, while always present in the signal path, remains inaudible until it becomes necessary for it to react. It kicks in at a point where it effectively reduces output to the horn and protects that diaphragm from damage due to excessive power input or signal distortion. Unlike a breaker it does not require a physical reset to allow signal back to the horn driver, and unlike a bulb or fuse, does not need to be replaced if the circuit is tripped, and the fuse is blown.

The high-powered E2152 features the ATP™ (Active-Transistor Protection) system that allows the horn driver to operate at levels significantly above those required for normal operation. The ATP™ brickwall element of the protection circuit uses power transistors configured to operate linearly yet have the fast attack required to protect against harmful transients. Along with ATP™, the crossover also incorporates air core coils and polypropylene capacitors to guarantee reliable and distortion free operation at extreme levels. The sonic benefit is higher output and greater transparency when operating at high levels.

1. **Processor Control** - Full function stereo analog processors that are configurable for passive or bi-amp operation, as well as live or recorded music applications make sure that your élite system is always tuned and ready.
2. **Integrated Flypoints** - All élite Series Loudspeakers have integrated reinforced flypoints and pullbacks for easy installation in commercial installs, clubs and concert halls.
3. **Rugged Driver Mounting System** - All élite cabinets feature a specially reinforced driver mounting system that makes sure the horn drivers will still be attached to the horns when you get to the show. The ABS or composite horns are pressure fitted to the driver which is bolted to the internal driver support.
4. **Custom Design Horns** - Custom ABS plastic and composite horns are specifically designed for each cabinet and manufactured right in our factory for optimum quality control. This insures proper waveguide output for better clarity and lower distortion.
5. **Curved Metal Speaker Grilles** - Curved metal grilles absorb shocks evenly to resist dings and dents while eliminating frequency resonance. The trapezoidal cabinet shape allows for arrayable performance without phase cancellation.
6. **Rugged Black Carpet Covering** - The highly practical carpet that covers the élite cabinets keeps them looking great over long term use. The two part rubberized glue that is used to attach the carpet ensures that élite cabinets will stand up against moisture by effectively wrapping the cabinet in a rubber glove.
7. **Recessed Handles** - All élite cabinets feature attractively recessed bar handles. Great care is taken to make sure that they "stay out of the way", but are easy to get at when you need them.
8. **Flush Mounted Stand Adaptors** - Flush-mounted stand adapters in the top of the subs and bottom of the full-range speakers allow the use of an adjustable Subwoofer Tube option which makes setup a breeze by eliminating the need for speaker stands.
9. **Integrated Wheels** - Tilt back wheels and top-mounted handles are standard issue on the larger cabinets and subwoofers.



# élite Passive Loudspeakers

## E10

- 200 Watt Full Range Loudspeaker
- 10-inch Neodymium Woofer
- 1-inch Titanium Diaphragm Compression Driver
- Designed for Front-of-House or Monitor Applications
- 100º x 25º ABS Waveguide Horn
- Innovative CTL™ High Frequency Driver Protection
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 3/8th-inch Flypoints
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**E10**) or Rugged Black Painted Finish (**E10B**)
- Optional élite Processor Available (**EP10**)

## E12

- 400 Watt Full Range Loudspeaker
- 12-inch Neodymium Woofer
- 1-inch Compression Driver (1.5-inch Voicecoil)
- Designed for Front-of-House or Monitor Applications
- 80º x 50º ABS Rotatable Custom Waveguide Horn
- Advanced PTC™ High Frequency Driver Protection
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 3/8th-inch Flypoints
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**E12**) or Rugged Black Painted Finish (**E12B**)
- Optional élite Processor Available (**EP1215**)

## E15

- 450 Watt Full Range Loudspeaker
- 15-inch Neodymium Woofer
- 1-inch Compression Driver (1.5-inch Voicecoil)
- Designed for Front-of-House or Monitor Applications
- 80º x 50º ABS Rotatable Custom Waveguide Horn
- Advanced PTC™ High Frequency Driver Protection
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 3/8th-inch Flypoints
- 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**E15**) or Rugged Black Painted Finish (**E15B**)
- Optional élite Processor Available (**EP1215**)

## E152

- 800 Watt Full Range Loudspeaker
- 15-inch Neodymium Woofer
- 3-inch Titanium Diaphragm HF Driver (1.5-inch Throat)
- Designed for Front-of-House or Monitor Applications
- 80º x 50º ABS Rotatable Custom Waveguide Horn
- Advanced PTC™ High Frequency Driver Protection
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 3/8th-inch Flypoints
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**E152**) or Rugged Black Painted Finish (**E152B**)
- Optional élite Processor Available (**EP152**)

***The Trapezoidal Design of the E10, E12, E15 and the E152 allows for use as a monitor***

# E1152

The E1152 delivers a full 1200 watts into the high quality 15-inch neodymium woofer and titanium driver housed in the solid 5/8-inch birch plywood trapezoid cabinet. Ideal for demanding touring and rental applications, the E1152 uses Yorkville's proven CTL™ high frequency driver protection ensures maximum reliability even in the most demanding club or concert hall.

- 1200 Watt Full Range Loudspeaker
- 15-inch Neodymium Woofer
- Titanium HF Driver with 3-inch Voicecoil
- Trapezoidal Front-of House Cabinet
- 60º x 50º High Pressure Die-Cast Polyurethane Foam Horn
- Innovative CTL™ High Frequency Driver Protection
- 2 x Speakon™ Inputs
- 1 x Full Range 1/4-inch Input
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 3/8th-inch Flypoints
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet

# E210

- 600 Watt Full Range Loudspeaker
- 2 x10-inch Neodymium Woofers
- 1-inch Compression Driver (1.5-inch Voicecoil)
- Designed for Front-of-House Applications, Under Balcony Installation or as a Delay / Repeater Cabinet
- 80º x 50º ABS Rotatable Custom Waveguide Horn
- Advanced PTC™ High Frequency Driver Protection
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 3/8th-inch Flypoints
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**E210**) or Rugged Black Painted Finish (**E210B**)
- Optional élite Processor Available (**EP210**)

# E215

- 1000 Watt Full Range Loudspeaker
- 2 x15-inch Neodymium Woofers
- 1-inch Compression Driver
- Designed for Full Range Front-of-House Performance
- 80º x 50º ABS Rotatable Custom Waveguide Horn
- Advanced PTC™ High Frequency Driver Protection
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 3/8th-inch Flypoints
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**E215**) or Rugged Black Painted Finish (**E215B**)
- Optional élite Processor Available (**EP215**)

# E2152

- 1500 Watt Full Range Loudspeaker
- 2 x15-inch Neodymium Woofers
- 3-inch Titanium Diaphragm HF Driver (1.5-inch Throat)
- Designed for Full Range Front-of-House Performance
- 90º x 40º Composite Conical Radial Horn
- Effective ATP™ High Frequency Driver Protection
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 3/8th-inch Flypoints
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**E2152**) or Rugged Black Painted Finish (**E2152B**)
- Optional élite Processor Available (**EP2152**)

## élite Passive Loudspeaker Specifications:

| Model | E10 | E12 | E15 | E152 | E1152 | E210 | E215 | E2152 |
|---|---|---|---|---|---|---|---|---|
| SYSTEM TYPE | Passive 2-Way | Passive 2-Way | Passive 2-Way | Passive 2-Way | Passive 2-Way | Passive 2-Way | Passive 2-Way | Passive 2-Way |
| PROGRAM POWER (watts) | 200 | 400 | 450 | 800 | 1200 | 600 | 1000 | 1500 |
| IMPEDANCE (ohms) | 8 | 8 | 8 | 8 | 4 | 4 | 4 | 4 |
| FREQ. RESPONSE (Hz +/-3dB) | 65 - 18k | 55 - 20k | 55 - 20k | 50 - 16k | 50 - 18k | 55 - 20k | 50 - 20k | 55 - 20k |
| SENSITIVITY (dB@1W/1m) | 100 | 102 | 102 | 98 | 97 | 102 | 102 | 100 |
| MAXIMUM SPL (dB) | 123 | 128 | 129 | 127 | 127 | 128 | 132 | 132 |
| X-OVER FREQUENCY (Hz) | 2900 | 1900 | 1900 | 1200 | 850 | 1900 | 1000 | 1500 |
| LF DRIVER(S) | 10" | 12" | 15" / 3" Voicecoil | 15" / 4" Voicecoil | 15" / 4" Voicecoil | 2 x 10" Neodymium | 2 x 15" | 2 x 15" / 3" Voicecoil |
| HF HORN | Waveguide | Rotatable Waveguide | Rotatable Waveguide | Rotatable Waveguide | ABS Waveguide | Rotatable Waveguide | Rotatable Waveguide | Composite Conical Radial |
| HF DRIVER | 1" Titanium | 1.5" Polyester | 1.5" Polyester | 3" Titanium | 3" Titanium | 1.5" Polyester | 1.75" Polyester | 3" Titanium |
| HF HORN THROAT DIAMETER | 1" | 1" | 1" | 1.5" | 1.4" | 1" | 1" | 1.5" |
| HF DISPERSION (H° x V°) | 100 x 25 | 80 x 50 / 50 x 80 | 80 x 50 / 50 x 80 | 80 x 50 / 50 x 80 | 60 x 50 | 80 x 50 / 50 x 80 | 80 x 50 / 50 x 80 | 90 x 40 |
| HF PROTECTION | CTL™ | PTC™ | PTC™ | PTC™ | CTL™ | PTC™ | PTC™ | ATP™ |
| BI-AMPABLE | No | Yes | Yes | Yes | Yes | No | Yes | Yes |
| CONSTRUCTION | 15mm 11-ply Birch | 15mm 11-ply Birch | 15mm 11-ply Birch | 15mm 11-ply Birch | 15mm 11-ply Birch | 15mm 11-ply Birch | 15mm 11-ply Birch | 15mm 11-ply Birch |
| STOCK FINISH | Black Carpet | Black Carpet | Black Carpet | Black Carpet | Black Carpet | Black Carpet | Black Carpet | Black Carpet |
| ALTERNATE FINISH | Black Ultrathane (E10B) | Black Ultrathane (E12B) | Black Ultrathane (E15B) | Black Ultrathane (E152B) | - | Black Ultrathane (E210B) | Black Ultrathane (E215B) | Black Ultrathane (E2152B) |
| GRILLE | Perforated Metal | Perforated Metal | Perforated Metal | Perforated Metal | Perforated Metal | Perforated Metal | Perforated Metal | Perforated Metal |
| INPUTS (1/4" / Speakon™) | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | 1 / 2 | 2 / 2 | 2 / 2 | 2 / 2 |
| HANDLES | 1 Side Bar | 2 Side Bar | 2 Side Bar | 2 Side Bar | 2 Side Bar | 2 Side Bar | 1 Corner Bar / 2 Side Bar | 2 Corner Bar / 2 Side Bar |
| FLYWARE TYPE / QUANTITY (CARPET) | 3/8" x 5 | 3/8" x 5 | 3/8" x 5 | 3/8" x 5 | 3/8" x 10 | 3/8" x 9 | 3/8" x 5 | 3/8" x 9 |
| FLYWARE TYPE / QUANTITY (PAINTED) | 3/8" x 9 | 3/8" x 9 | 3/8" x 9 | 3/8" x 9 | - | 3/8" x 9 | 3/8" x 9 | 3/8" x 9 |
| STAND MOUNT ADAPTOR | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| WHEELS | - | - | - | Yes | - | Yes | Yes | Yes |
| OPTIONAL ACCESSORIES | EP10 Processor | EP1215 Processor | EP1215 Processor | EP152 Processor | - | EP210 Processor | EP215 Processor | EP2152 Processor |
| DIMENSIONS (DxWxHxBW inches) | 12 x 13 x 18.5 x 5.5 | 14 x 18 x 25 x 8.5 | 15.5 x 19 x 28.5 x 8 | 15.5 x 19.5 x 29 x 8 | 18 x 20 x 29 | 12 x 14 x 34 x 6.5 | 23 x 22 x 46 x 11 | 19 x 26 x 45 x 18 |
| DIMENSIONS (DxWxHxBW cm) | 30 x 33 x 45 x 14 | 36 x 46 x 64 x 22 | 38 x 48 x 72 x 20 | 40 x 50 x 74 x 20 | 45.8 x 50.1 x 73.7 | 31 x 36 x 86 x 17 | 58 x 56 x 117 x 28 | 48 x 66 x 115 x 46 |
| WEIGHT (lbs / kg) | 36 / 16.4 | 60 / 27.3 | 66 / 29.8 | 83 / 37.7 | 80 / 36.3 | 52 / 23.6 | 136 / 61.7 | 167 / 75.8 |

*Specifications subject to change without notice.*

# élite Stage Monitors

## EM378

Vocal clarity and excellent bass response are hallmarks of the bi-ampable EM378. This extremely loud compact wedge is specifically optimized for use on the floor and can be used with the baffle at either 50° or 40° for maximum application flexibility. The proprietary 12-inch woofer with 3-inch voice coil used in the EM378 provides extra high output at 80Hz, making the EM378 sound much larger than it appears. The smooth 2-inch high frequency driver is mounted on a vertical format 40°x 60°horn and is combined with the woofer using very steep crossover slopes to minimize floor reflections.

- 350 Watt Stage Monitor
- 12-inch Neodymium Woofer
- 2-inch Horh (1.5-inch Throat)
- Dedicated Wedge Monitor with Two Tilt Angles
- 40º x 60º ABS Waveguide Horn
- Proven CTL™ High Frequency Driver Protection
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Standmount
- Integrated 3/8th-inch Flypoints
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**EM378**) or Rugged Black Painted Finish (**EM378BLK**)
- Optional élite Processor Available (**EP378**)

### Specifications:

| Model | EM378 |
|---|---|
| SYSTEM TYPE | Passive 2-Way |
| PROGRAM POWER (watts) | 350 |
| IMPEDANCE (ohms) | 8 |
| FREQ. RESPONSE (Hz +/-3dB) | 65 - 16k |
| SENSITIVITY (dB@1W/1m) | 102 |
| MAXIMUM SPL (dB) | 127 |
| X-OVER FREQUENCY (Hz) | 1200 |
| LF DRIVER(S) | 12" / 3" Voicecoil |
| HF HORN | Waveguide |
| HF DRIVER | 3" Titanium Driver |
| HF HORN THROAT DIAMETER | 1.5" |
| HF DISPERSION (H° x V°) | 40 x 60 |
| HF PROTECTION | CTL™ |
| BI-AMPABLE | Yes |
| CONSTRUCTION | 3/4" 7-ply Spruce |
| STOCK FINISH | Black Carpet |
| ALTERNATE FINISH | - |
| GRILLE | Perforated Metal |
| INPUTS (1/4" / Speakon™) | 2 / 2 |
| HANDLES | 2 Side Bar |
| FLYWARE TYPE / QUANTITY (CARPET) | - |
| FLYWARE TYPE / QUANTITY (PAINTED) | - |
| STAND MOUNT ADAPTOR | Yes |
| WHEELS | - |
| OPTIONAL ACCESSORIES | EP378 Processor |
| DIMENSIONS (DxWxHxBW inches) | 25 x 16 x 15 |
| DIMENSIONS (DxWxHxBW cm) | 65 x 40 x 39 |
| WEIGHT (lbs / kg) | 66 / 30 |

*Specifications subject to change without notice.*

# élite Loudspeaker Processors

Every élite enclosure can be used with an optional, dedicated stereo processor designed to optimize the performance of a specific cabinet in the line.

The 19-inch rack-mountable processors interface between the output of the mixer and the input of the power amplifier(s) to provide both pre-equalization and crossover facilities, plus enhanced subsonic protection and hum-rejection.

Subwoofer outputs feature user variable 90Hz to 150Hz crossover frequency controls. Bass frequencies destined for the full-range enclosure's woofer, which are more effectively reproduced by the subwoofer are rolled off. A two or three way system can be achieved by adding a subwoofer to your existing élite system.

Additional features include push buttons for live/playback mode, bi-amp/full range mode and subwoofer in/out. All processors feature balanced 1/4-inch TRS (XLR optional) inputs and outputs and can be used with all Yorkville subwoofers.

**Question** – *Will my élite speakers work without a processor?*

**Answer** – élite boxes do sound great on their own, without much tweaking or external processing. The simple answer is you don't *absolutely* need a processor, as much as you will want one after trying the system with and without the processor.

**Confused?** *Don't be.*
In reality, all of the élite cabinets will operate just fine without the processor in the system. There is a tuned passive crossover network in every élite loudspeaker, and the component protection is part of that crossover network. *(Unlike the fully processed Yorkville TX systems where that processor is the only crossover system, and is integral to protect the components.)*

***However, there are advantages to having that élite processor around***.

First of all, the élite processors are designed for specific cabinets and must be used in the right combination. If you're using the E215 then there is an EP215 processor, likewise the E2152 should have an EP2152 processor. The reason is simple. Our processors provide a proper overall pre-EQ'd tone and are tweaked for their specific cabinets.

Each processor takes into account the individual cabinet's design characteristics. They know where to boost and to cut frequencies for optimum, even and most efficient cabinet response. In the cases of the smaller cabinets like the E10, the processor rolls off extremely low frequencies the cabinet isn't designed to reproduce, thus making the system operate more efficiently.

When using élite cabinets with subwoofers, the processor becomes the active crossover as well. Again, it optimizes the frequency response of the 'top' cabinet taking into account that there is a subwoofer present, and properly crosses over and phase aligns the system. Simply throw the switch on the processor from one-way to two-way mode and the crossover kicks in, the top box (E10, E12 or whatever enclosure you choose) becomes smooth mids and highs only, and you have a balanced output to feed the low frequency program to a subwoofer system.

****User Tip** – *When running a monitor system on stage with any élite monitor enclosures, use the processor in two-way mode. This will create a dramatic bass roll off in the cabinet and in some cases, more mid presence. In a monitor system, excess bottom end clutters up the stage sound and the increased presence makes the monitor mix much clearer and far more intelligible.*

## *élite Processor Specifications:*

| Model | EP10 | EP1215 | EP152 | EP210 | EP215 | EP2152 | EP378 |
|---|---|---|---|---|---|---|---|
| BI-AMP X-OVER FREQ. (Hz) | NA | 1500 | 1400 | NA | 1000 | 1500 | 1200 |
| SUBWOOFER X-OVER FREQ. (Hz) | 90 to 150 variable | 90 to 150 variable | 90 to 150 variable | 90 to 150 variable | 90 to 150 variable | 90 to 150 variable | 90 to 150 variable |
| S/N RATIO (dB) | >97 | >97 | >97 | >97 | >97 | >97 | >97 |
| MAX. OUTPUT @ 1kHz | 8Vrms, 20 dBm | 8Vrms, 20 dBm | 8Vrms, 20 dBm | 8Vrms, 20 dBm | 8Vrms, 20 dBm | 8Vrms, 20 dBm | 8Vrms, 20 dBm |

*Specifications subject to change without notice.*

# élite Series Passive Subwoofers

All élite subwoofers are horn-loaded except for the LS1004, which is a bass reflex design. Suitable for touring or fixed installations, the cabinets are constructed of 15mm plywood with heavy internal bracing for reduced resonance and better durability.

The Speakon™ connectors on select subwoofers feature a configuration switch which allows instant reversal of Speakon™ jack pinouts for easy single wire hook-up using optional four wire Speakon™ cables.

## LS608

- 800 Watt Subwoofer
- 18-inch Neodymium Woofer
- Quasi Horn-Loaded Cabinet Design
- 8 Ohm Design for Easy Amplifier Configuration
- 50Hz – 300Hz Frequency Response
- Speakon configuration switch simplifies connectivity
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Pole Mount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**LS608**) or Rugged Black Painted Finish (**LS608B**)

## LS808

- 800 Watt Subwoofer
- 18-inch Neodymium Woofer
- Rear Horn-Loaded Cabinet Design
- 8 Ohm Design for Easy Amplifier Configuration
- 45Hz – 180Hz Frequency Response
- Speakon Configuration Switch Simplifies Connectivity
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Pole Mount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**LS808**) or Rugged Black Painted Finish (**LS808B**)

## LS1004

- 1200 Watt Subwoofer
- 2 x 18-inch Neodymium Woofers
- 45Hz – 180Hz Frequency Response
- Speakon Configuration Switch Simplifies Connectivity
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Pole Mount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Integrated Heavy Duty Wheels
- Available in Black Carpet (**LS1004**) or Rugged Black Painted Finish (**LS1004B**)

### *élite Passive Subwoofer Specifications:*

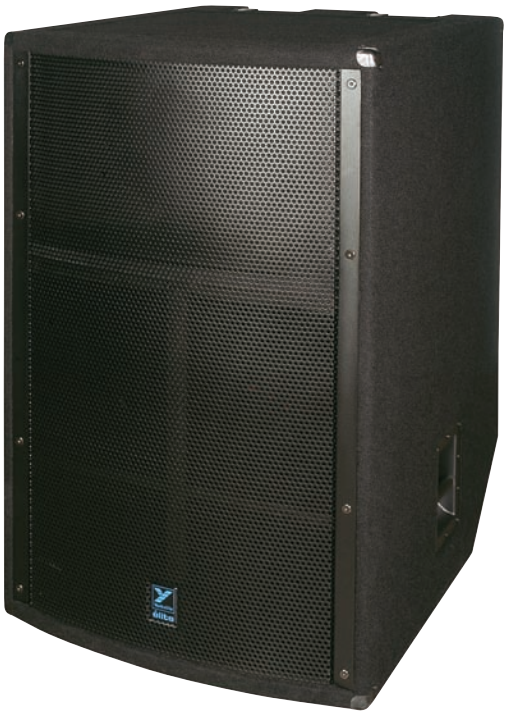
| Model | LS608 | LS808 | LS1004 | LS1208 | LS2104 |
|---|---|---|---|---|---|
| SYSTEM TYPE | Quasi Horn-Loaded | Rear Horn-Loaded | Bass Reflex | Horn-Loaded | Horn-Loaded |
| PROGRAM POWER (watts) | 800 | 800 | 1200 | 1200 | 3000 |
| IMPEDANCE (ohms) | 8 | 8 | 4 | 8 | 4 |
| FREQ. RESPONSE (Hz +/-3dB) | 50 - 300 | 45 - 180 | 40 - 300 | 35 - 200 | 32 - 200 |
| SENSITIVITY (dB@1W/1m) | 103 | 105 | 102 | 105 | 98 |
| MAXIMUM SPL (dB) | 132 | 134 | 133 | 136 | 132 |
| LF DRIVERS | 18" / 4" Voice Coil | 18" / 4" Voice Coil | 2 x 18" / 4" Voice Coil | 18" / 4" Voice Coil | 21" / 6" Voice Coil |
| CONSTRUCTION | 15mm 11-ply Birch | 15mm 11-ply Birch | 15mm 11-ply Birch | 15mm 11-ply Birch | 15mm 11-ply Birch |
| STOCK FINISH | Black Carpet | Black Carpet | Black Carpet | Black Carpet | Black Carpet |
| ALTERNATE FINISH | Black Ultrathane (LS608B) | Black Ultrathane (LS808B) | Black Ultrathane (LS1004B) | Black Ultrathane (LS1208B) | Black Ultrathane (LS2104B) |
| INPUTS (1/4" / Speakon™) | 2 / 2 Configurable | 2 / 2 Configurable | 2 / 2 Configurable | 2 / 2 Configurable | 0 / 2 Configurable |
| HANDLES | 2 Side Bar | 2 Side Bar / 1 Corner Bar | 2 Side Bar / 2 Corner Bar | 2 Side Bar / 2 Corner Bar | 2 Side Bar / 2 Sider Bar / 2 Bottom |
| STAND MOUNT ADAPTOR | Yes - Top | Yes - Top | - | - | Yes - Top |
| WHEELS | - | Yes | Yes | Yes | Yes |
| DIMENSION (DxWxH inches) | 26.2 x 23.1 x 24.6 | 23 x 28.3 x 31.5 | 23.5 x 28.3 x 43.5 | 33 x 28 x 43.5 | 26.75 x 25.25 x 36 |
| DIMENSION (DxWxH cm) | 66 x 58 x 62 | 58 x 72 x 80 | 60 x 72 x 110 | 84 x 71 x 111 | 68 x 64.1 x 94.1 |
| WEIGHT (lbs / kg) | 91 / 41.3 | 115 / 52 | 163 / 74 | 172 / 78.1 | 148.5 / 67.4 |

*Specifications subject to change without notice.*

# LS1208

A two year investigation into the optimization of high output low frequency sound has lead to the development of the LS1208 basspipe subwoofer system.

The basspipe is a multiple flare horn, connected to an organ like pipe, slowly flaring to the mouth. The bandwidth is narrowed, optimized to a specific range in the lower registers. Outdoor measurements show very smooth, very high output in the 35Hz to 200Hz range. This is the highest efficiency that we have ever seen for a single 18-inch driver enclosure, especially with a gross volume of only 22 cubic feet. In addition, a significant gain is achieved when using two units side by side as the mouth nears maximum acoustic load, making the LS1208 one of the highest output subwoofer systems available.



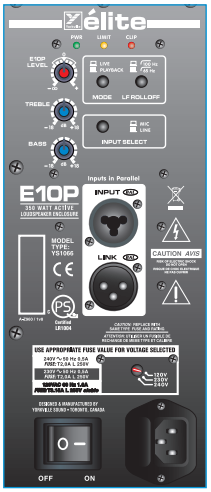
- 1200 Watt Subwoofer
- 18-inch Neodymium Woofer
- Horn-Loaded Cabinet Design
- 8 Ohm Design for Easy Amplifier Configuration
- 35Hz – 200Hz Frequency Response
- Speakon Configuration Switch Simplifies Connectivity
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Pole Mount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Integrated Heavy Duty Wheels
- Available in Black Carpet (**LS1208**) or Rugged Black Painted Finish (**LS1208B**)

# LS2104

The ultimate passive subwoofer, the élite LS2104 delivers up to 3000 watts of bottom end support to any large-scale club or concert venue. A 21-inch neodymium driver with a full 6-inch voicecoil rear-loaded bass horn enclosure delivers a maximum SPL of 132dB in the essential 32 to 200Hz range.

- 3000 Watt Subwoofer
- 21-inch Neodymium Woofer
- Rear Horn-Loaded Cabinet Design
- 32Hz – 200Hz Frequency Response
- Speakon Configuration Switch Simplifies Connectivity
- 2 x Speakon™ Parallel Inputs
- Integrated All Metal Speaker Pole Mount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Integrated Heavy Duty Wheels
- Available in Black Carpet (**LS2104**) or Rugged Black Painted Finish (**LS2104B**)

# élite Powered Loudspeakers



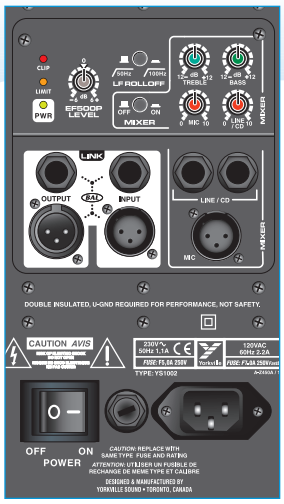

- Integrated 350 Watt Amplifier
- Bi-Amplified Power Module (300 watts + 50 Watts)
- 10-inch Neodymium Woofer
- 1-inch Compression Driver
- Designed for Front-of-House or Monitor Applications
- 100° x 25° Horn with Peak and Average Horn Protection
- Two Band EQ with LF Roll-Off and Live/Playback Mode Switches
- Combi-Jack XLR and 1/4-inch Input
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 1/4-20 Flypoints
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**E10P**) or Rugged Black Painted Finish (**E10PB**)

## E10P

The E10P is an advanced, compact two-way active loudspeaker designed for a wide variety of pro-audio applications. Innovative processing is built-in to ensure optimum performance and clarity. Built for maximum versatility, the E10P input section will easily handle microphone or line level inputs through the XLR / TRS Combi-jack. Bass and Treble EQ in addition to Level control and a Mic/Line input gain selector ensure the E10P can handle virtually any audio source. A Live/Playback EQ preset selector, a 100Hz/50Hz low-frequency Roll-off selector (no crossover needed for subs), a full-time Limiter with LED indicator, a Clip LED, a Link output ensure the E10P can adapt easily to any audio application.

## EF500P

The EF500P redefines performance in a high-power professional active loudspeaker enclosure. 800 watts of bi-amped power packaged in a highly efficient trapezoidal cabinet with 15-inch long excursion neodymium woofer, 2-inch horn, and advanced signal processing is destined to set a new standard for active loudspeaker design.



### *élite Powered Specifications:*

| Model | E10P | EF500P |
|---|---|---|
| SYSTEM TYPE | Active 2-Way | Active 2-Way |
| PROGRAM POWER (watts) | 300 LF +50 HF | 650 LF +150 HF |
| FREQ. RESPONSE (Hz +/- 3dB) | 65 - 20k | 50 - 16k |
| MAXIMUM SPL (dB) | 123 | 127 |
| X-OVER FREQUENCY (Hz) | 1500 | 2100 |
| LF DRIVER(S) | 10" | 15" |
| HF HORN | ABS Waveguide | Waveguide |
| HF DRIVER | 1" Titanium | 3" Titanium |
| HF HORN THROAT DIAMETER | 1" | 2" |
| HF DISPERSION (H° x V°) | 100 x 25 | 60 x 40 |
| HF PROTECTION | Peak / Average Limiter | Thermal / Peak Limiter |
| LF PROTECTION | Excursion / RMS | Thermal / Peak Limiter / Overexcursion |
| BI-AMPABLE | Active Bi-Amp | Active Bi-Amp |
| CONSTRUCTION | 15mm (5/8-inch) 11-ply Birch | 3/4" 7-ply Spruce |
| STOCK FINISH | Black Carpet | Black Carpet |
| ALTERNATE FINISH | Black Ultrathane (E10PB)<br>15mm 11-ply Birch | Black Ultrathane (EF500PB)<br>18mm 11-ply Birch |
| GRILLE | Perforated Metal | Perforated Metal |
| INPUTS (1/4" / XLR) | 1 Combijack | 3 / 2 |
| MIXER CONTROLS | Gain<br>Bass<br>Treble | Mic Gain / Line Source Gain<br>+/- 6dB Input trim control<br>Subwoofer tuning / selection switch |
| LOOP IN / OUTPUTS | XLR-M (x1) | XLR-M / XLR-F 1/4" TRS balanced (x2) |
| HANDLES | 1 Side Bar | 2 Side Bar |
| FLYWARE TYPE / QUANTITY | 3/8" x 9 | 3/8" x 9 |
| FLYWARE LOCATIONS | 2 x Top / Bottom / Sides<br>1 x Back | 2 x Top / Bottom / Sides<br>1 x Back |
| STAND MOUNT ADAPTOR | Yes | Yes |
| DIMENSIONS (DxWxHxBW inches) | 12 x 13 x 18.5 x 5.5 | 14.5 x 18.6 x 28.2 x 11 |
| DIMENSIONS (DxWxHxBW cm) | 30 x 33 x 45 x 14 | 37 x 47 x 72 x 28 |
| WEIGHT | 35 / 15.5 | 89 / 40.4 |

- Integrated 800 Watt Biamplified Power Module
- 650 watts (Woofer) + 150 watts (Horn)
- 15-inch Neodymium Woofer
- 2-inch Compression Driver
- Designed for Front-of-House Applications
- 60° x 40° Horn with Peak and Thermal Horn Protection
- Built-in Mixer with Two Band EQ and LF Roll-Off Mode Switch
- Parallel XLR and 1/4-inch Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 3/8th-inch Flypoints
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**EF500P**) or Rugged Black Painted Finish (**EF500PB**)

# élite Series Powered Subwoofers

élite active cabinets are the ultimate in convenience. Each includes a state of the art amplifier coupled with a high quality driver system enclosed in a tuned enclosure designed specifically to complement the amp/driver combination. All include comprehensive speaker and amplifier protection as well as excellent interconnectivity options and the standard élite, ultra-rugged design.

Advanced sensing circuitry offers sonically transparent limiting and thermal driver protection for maximum reliability.

## LS200P

- Integrated 200 Watt Amplifier
- 10-inch Neodymium Speaker
- Ultra Compact Subwoofer
- 50Hz – 110Hz Frequency Response
- Parallel 1/4-inch Selectable Line or Speaker Level Inputs
- Excursion, Peak and Thermal Woofer Protection
- Integrated All Metal Speaker Pole Mount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**LS200P**) or Rugged Black Painted Finish (**LS200PB**)

## LS700P

- Integrated 700 Watt Amplifier
- 2 x10-inch Neodymium Speakers
- Ultra Compact High Powered Subwoofer Design
- 45Hz – 125Hz Frequency Response
- Parallel 1/4-inch Selectable Line or Speaker Level Inputs
- Excursion, Peak and Thermal Woofer Protection
- Integrated All Metal Speaker Pole Mount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**LS700P**) or Rugged Black Painted Finish (**LS700PB**)

## LS801P

- Integrated 1500 Watt Amplifier
- 18-inch Neodymium Speaker
- High Performance Mid-Sized Subwoofer Design
- 45Hz – 150Hz with Adjustable HF Roll-Off
- 45Hz – 90Hz Variable Boost Frequency
- Parallel XLR and 1/4-inch Selectable Line or Speaker Level Inputs
- Excursion, Peak and Thermal Woofer Protection
- Integrated All Metal Speaker Pole Mount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**LS801P**) or Rugged Black Painted Finish (**LS801PB**)

### *élite Powered Specifications:*

| Model | LS200P | LS700P | LS720P | LS801P | L2100P |
|---|---|---|---|---|---|
| SYSTEM TYPE | Active Band Pass Subwoofer | Active Band Pass Subwoofer | Active Subwoofer | Active Rear Horn-Loaded | Active Rear Horn-Loaded |
| PROGRAM POWER (watts) | 200 | 700 | 720 | 1500 | 2400 |
| FREQ. RESPONSE (Hz +/- 3dB) | 50 - 110 | 45 - 125 | 40 - 150 | 45 - 150 | 32 - 200 |
| MAXIMUM SPL (dB) | 125 | 131 | 128 | 134 | 135 |
| LF DRIVER(S) | 10" | 2 x 10" | 15" | 18" | 21" |
| LF PROTECTION | Thermal / Overcurrent / Clip | Thermal / Overcurrent / Clip | Excursion / Thermal / Clip | Thermal / Overcurrent / Clip | Thermal / Overcurrent / Clip |
| CONSTRUCTION | 15mm 11-ply Birch | 15mm 11-ply Birch | 15mm 11-ply Birch | 15mm 11-ply Birch | 3/4" 7-ply Spruce |
| STOCK FINISH | Black Carpet | Black Carpet | Black Carpet | Black Carpet | Black Carpet |
| ALTERNATE FINISH | Black Ultrathane (LS200PB) | Black Ultrathane (LS700PB) | See NX720P | Black Ultrathane (LS801PB) | Black Ultrathane (LS2100PB) |
| | 15mm 11-ply Birch | 15mm 11-ply Birch | - | 15mm 11-ply Birch | |
| GRILLE | Perforated Metal | Perforated Metal | Perforated Metal | Perforated Metal | Perforated Metal |
| INPUTS (1/4" / XLR) | 2 / none | 2 / none | 1 / 2 | 2 / 2 | 2 / 2 |
| MIXER CONTROLS | Line Source Gain | Line Source Gain | Main Volume | - | Level |
| | Speaker / Line Level Input | Speaker / Line Level Input | HF Cut-off (90 - 150Hz) | - | Low Pass Filter Frequency |
| | Treble | Subwoofer tuning / selection switch | Limiter | - | Bass Boost Level |
| LOOP IN / OUTPUTS | 1/4" TRS balanced (x2) | 1/4" TRS balanced (x2) | 1/4" (x2) / XLR (x2) | 1/4" (x2) / XLR (x2) | 1/4" (x2) / XLR (x2) |
| HANDLES | 1 Side Bar | 2 Side Bar | 2 Side Bar | 2 Side Bar / 1 Corner Bar / Wheels | 6 Side Bar / 2 Top Bar |
| STAND MOUNT ADAPTOR | Yes Top | Yes Top | Yes Top | Yes Top | Yes Top |
| DIMENSIONS (DxWxHxBW inches) | 27 x 17.5 x 14 | 24.5 x 24 x 17.5 | 21.5 x 18.1 x 22.75 | 23 x 27.5 x 32 | 31 x 25.25 x 36 |
| DIMENSIONS (DxWxHxBW cm) | 69 x 44 x 36 | 62 x 61 x 44.5 | 54.6 x 46 x 57.8 | 58.4 x 70 x 81.3 | 78.7 x 64.1 x 94.1 |
| WEIGHT | 57 / 25.9 | 91 / 41.3 | 74.5 / 33.8 | 137.3 / 62.3 | 203 / 92.1 |

*Specifications subject to change without notice.*

# LS720P

Delivering outstanding low-frequency support for an active subwoofer this compact, the 720-watt LS720P has been designed from the ground up to be the ideal companion for any medium sized live sound or DJ PA. Built with the gigging musician in mind, the LS720P uses a single long excursion neodymium magnet 15-inch woofer to deliver maximum impact in the 40 to 150 Hz range. Simple controls include input gain control (Volume), and variable high frequency roll-off to trim the subwoofers low-pass filter to suit whatever full range cabinets are being used with this sub. A low frequency tunable bass boost from 90 to150 Hz has been included.

The integrated power section in the LS720P uses an ingenious input / output system. XLR balanced inputs as well as 1/4-inch TRS balanced inputs allow quick connection to virtually any audio source. XLR and 1/4-inch thru-puts allow multiple LS720P subwoofers to be chained for larger system set-ups. The 1/4-inch inputs will support line level or speaker level signal ensuring the LS720P can be quickly added to any PA system quickly and easily, ensuring maximum versatility.

- Integrated 720 Watt Amplifier
- 15-inch Neodymium Speaker
- Compact High Powered Subwoofer Design
- 40Hz – 150Hz with Adjustable HF Roll-Off
- 90Hz - 150Hz Variable Boost Frequency
- Parallel XLR and 1/4-inch Selectable Line or Speaker Level Inputs
- Excursion, Peak and Thermal Woofer Protection
- Integrated All Metal Speaker Pole Mount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**LS720P**) or Rugged Black Painted Finish (**see NX720S**)

# LS2100P

Built for even the most demanding club or concert setting, the élite LS2100P delivers solid deep bass and punch in this fully powered version of the popular LS2104. The Integrated amplifier delivers 2400 watts into a 21-inch long excursion neodymium woofer with 6-inch voicecoil. XLR and 1/4-inch TRS input capable of handling line or speaker level ensures the LS2100P can be easily integrated into virtually any medium to large scale PA needing additional bottom end support with a minimum of effort.

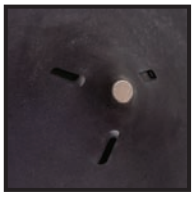
- Integrated 2400 Watt Amplifier
- 21-inch Neodymium Speaker
- High Performance Mid-Sized Subwoofer Design
- 32Hz – 150Hz with Adjustable HF Roll-Off
- 45Hz – 90Hz Variable Boost Frequency
- Parallel XLR and 1/4-inch Selectable Line or Speaker Level Inputs
- Excursion, Peak and Thermal Woofer Protection
- Integrated All Metal Speaker Pole Mount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Available in Black Carpet (**LS2100P**) or Rugged Black Painted Finish (**LS2100PB**)

# unity™ Series Loudspeakers and Subwoofers

Unity™ Series loudspeakers are a radical design from Yorkville Sound that delivers ultra clear reproduction, extremely linear frequency response and incredibly low distortion in a high quality professional loudspeaker cabinet.

The unprecedented clarity and linear frequency response through the high-mid band is achieved using the patented Unity™ horn technology, designed by Tom Danley and licensed to Yorkville Sound.

Unity™ horn technology combines a single 1.75-inch compression driver with three 5-inch sealed back ceramic magnet midrange drivers on a single highly efficient conical horn. This combines high and mid frequency driver components in a single 60º x 60º conical horn that produces frequencies from 300Hz to 20kHz. All four driver components mounted in a Unity™ horn take advantage of the variable flare rate nature of the constant directivity horn, and measure and act like a single point source.



This allows the mid frequency and high frequency drivers to act as one unit, without needing cumbersome DSP, external crossover networks or complex bi-amplification when used in a passive loudspeaker configuration.

Unlike multi-driver two or three way full range speaker systems, in a Unity™ horn, there is no self-interference between the various components at crossover frequencies, and unlike conventional loudspeakers systems, the polar plots are free of lobes and large changes in directivity versus frequency. The front to back spacing of the drivers on the horn exactly compensates for the drivers' "built in" delays and the phase shift /delay introduced by the crossover.

Polar measurements show that while there are four drivers loading the horn, it is acoustically ONE source. Energy vs. Time measurements show all of the mid and high frequencies from a Unity™ loudspeaker emanate from one source, and acoustic phase measurements give no indication of where the crossover point is set.

Due to the high efficiency of the horn loading, the mid and high frequency drivers are conservatively driven well below each component's maximum power handling which accounts for the ultra low distortion specification.

In Unity™ loudspeaker cabinets, the cone drivers for the mid section are running well below the rated output capacity in normal operation, they are +2dB more efficient than the compression driver and the group of three handles about two times the power.

As a result of efficient horn loading and high headroom, mid range harmonic distortion is typically 1/10 to 1/100 of that measured in most speakers at the same SPL, far lower than any 2-inch compression driver.

## Unity™ is arguably the first major evolution in horn technology in the last 60 years.

When combined with neodymium woofers in a rugged Yorkville designed and manufactured solid birch plywood cabinet, the Unity™ Series redefines the boundaries of affordable professional PA loudspeakers.

### *Unity™ Passive Series Specifications:*

| Model | U15 | U215 | UCS1 |
|---|---|---|---|
| SYSTEM TYPE | Passive 3-Way | Passive 3-Way | Passive Subwoofer |
| BIAMPABLE | YES | YES | - |
| PROGRAM POWER (watts) | 800 | 1600 | 1000 |
| BI-AMP POWER | 800 LF / 200 HF | 1600 LF / 200 HF | |
| IMPEDANCE (ohms) | 4 | 4 | 8 |
| FREQ. RESPONSE (Hz +/- 3dB) | 50 - 20000 | 45 - 20000 | 37 - 150 |
| SENSITIVITY (dB@1W/1m) | 98 | 98 | 102 |
| MAXIMUM SPL (dB) | 127 | 130 | 132 |
| X-OVER FREQUENCY (Hz) | 300 / 1250 | 300 / 1250 | - |
| DRIVER CONFIGURATION | 15" / 3 x 5" / 1 x 1.75" | 2 x 15" / 3 x 5" / 1 x 1.75" | 1 x 15" Horn Loaded |
| LF DRIVER(S) | 15" Neodymium / 3" voice coil | 2 x 15" Neodymium / 3" voice coil | 15" / 3" voice coil |
| MF DRIVER(S) | 3 X 5" / 1" voice coil | 3 X 5" / 1" voice coil | - |
| HF DRIVER(S) | 1.75" polyester | 1.75" polyester | - |
| HIGH / MID HORN CONFIGURATION | Conical Unity™ Horn | Conical Unity™ Horn | - |
| HIGH / MID HORN DISPERSION (H° x V°) | 60 x 60 | 60 x 60 | - |
| HF HORN THROAT DIAMETER | 1" | 1" | - |
| HF PROTECTION | PTC™ | PTC™ | - |
| CONSTRUCTION | 15mm 11-ply Birch | 15mm 11-ply Birch | 15mm 11-ply Birch |
| GRILLE | Perforated Metal | Perforated Metal | Perforated Metal |
| STOCK FINISH | Black carpet | Black carpet | Black carpet |
| OPTIONAL FINISH | Black Ultrathane paint (U15B) | Black Ultrathane paint (U215B) | Black Ultrathane paint (UCS1B) |
| INPUTS (1/4" / Speakon™) | 2 / 2 | 2 / 2 | 2 / 2 Configurable |
| HANDLES | 2 Side Bar | 1 Top / 2 Side Bar / 1 Bottom | 4 Bar |
| FLYWARE TYPE / QUANTITY | 3/8" / 9 | 3/8" / 9 | - |
| FLYWARE LOCATIONS | All corners / 1 pullback | All corners / 2 pullbacks | - |
| OPTIONAL ACCESSORIES | Unity™ UP15 Processor | Unity™ UP215 Processor | - |
| HARDWARE | Stand mount adaptor | Wheels | Wheels / Stand mount |
| DIMENSIONS (DxWxHxBW inches) | 16.25 x 19.25 x 34 x 9.5 | 16.25 x 19.25 x 50 x 9.5 | 26.25 x 19.25 x 41 |
| DIMENSIONS (DxWxHxBW cm) | 42 x 49 x 87 x 24 | 42 x 49 x 127 x 24 | 66.7 x 49 x 104 |
| WEIGHT (lbs / kg) | 80 / 36 | 95 / 43 | 118 / 44.5 |

*Specifications subject to change without notice.*

### *Unity™ Powered Series Specifications:*

| Model | U15P | UCS1P |
|---|---|---|
| SYSTEM TYPE | Active 3-Way | Active Subwoofer |
| PROGRAM POWER (watts) | 900 | 1500 |
| FREQ. RESPONSE (Hz +/- 3dB) | 50 - 20,000 | 37 - 150 |
| MAXIMUM SPL (dB) | 127 | 137 |
| X-OVER FREQUENCY (Hz) | 350 / 1250 | - |
| DRIVER CONFIGURATION | 15" / 3 x 5" / 1 x 1.75" | 1 x 15" Horn Loaded |
| LF DRIVER(S) | 15" Neodymium / 3" voice coil | 15" / 4" voice coil |
| MF DRIVER(S) | 3 X 5" / 1" voice coil | - |
| HF DRIVER(S) | 1.75" polyester | - |
| HIGH / MID HORN CONFIGURATION | Conical Unity™ Horn | - |
| HIGH / MID HORN DISPERSION (H° x V°) | 60 x 60 | - |
| HF HORN THROAT DIAMETER | 1" | - |
| HF PROTECTION | DSP Limiter | - |
| CONSTRUCTION | 15mm 11-ply Birch | 15mm 11-ply Birch |
| GRILLE | Perforated Metal | Perforated Metal |
| INPUTS | 2 x 1/4-inch / 2x XLR | 2 x 1/4-inch / 2x XLR |
| HANDLES | 2 Side Bar | 2 Side / 2 Back / 1 Bottom |
| FLYWARE TYPE / QUANTITY | 3/8" / 9 | - |
| FLYWARE LOCATIONS | 3/8inch x 9 (all corners) | - |
| HARDWARE | Stand mount adaptor | Wheels / Stand mount |
| DIMENSIONS (DxWxHxBW inches) | 16.5 x 22.5 x 34 x 13 | 27 x 22.25 x 41 |
| DIMENSIONS (DxWxHxBW cm) | 42 x 57 x 86 x 33 | 68.6 x 56.5 x 104 |
| WEIGHT (lbs / kg) | 110 / 49.9 | 155 / 70.3 |

*Specifications subject to change without notice.*

# U15

Engineered for the serious pro audio user, the U15 is among the most advanced, most versatile and most efficient high-powered compact PA cabinet available in the market today.

The unparalleled clarity and precision of the patented Unity™ Summation Aperture conical horn when combined with the single 15-inch Neodymium woofer deliver intelligibility and performance unmatched by any competitive loudspeaker in this class.

- 800 Watt 3-Way Full Range Loudspeaker
- 15-inch Neodymium Woofer
- Patented 60° x 60° Conical Unity™ Horn
- 3 x 5-inch Midrange Drivers
- 1-inch Diaphragm Compression Driver
- Innovative PTC™ High Frequency Driver Protection
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction

# U215

- 1600 Watt 3-Way Full Range Loudspeaker
- 2 x 15-inch Neodymium Woofers
- Patented 60° x 60° Conical Unity™ Horn
- 3 x 5-inch Midrange Drivers
- 1-inch Diaphragm Compression Driver
- Innovative PTC™ High Frequency Driver Protection
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction

# UCS1 Subwoofer

The UCS1 is the ideal passive subwoofer to use with the Unity™ U15 or U215 loudspeaker systems. This 1000-watt 8-ohm cabinet takes full advantage of its horn-loaded design to deliver fierce bottom end from a surprisingly compact, single 15-inch loaded passive subwoofer.

- 1000 Watt Subwoofer
- 15-inch Neodymium Woofer
- Horn-Loaded Cabinet Design
- 8 Ohm Design for Easy Amplifier Configuration
- 37Hz - 150Hz Frequency Response
- Speakon configuration switch simplifies connectivity
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Pole Mount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction

# unity™ UP15 and UP215 Processors

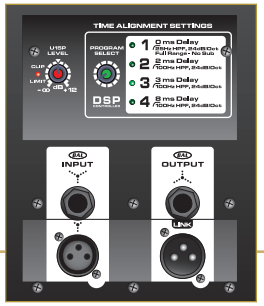
Although Unity™ Series loudspeakers can operate easily and effectively on their own, there are optional dedicated stereo processors that enhance the cabinet's overall performance. The UP15 processor (for U15 cabinets) and the UP215 (for use U215s) offer pre-equalization to optimize cabinet response when running Unity™ cabinets in full range mode, and provide crossover facilities for bi-amplification of Unity™ enclosures. The Unity processors also provide simple cost effective subwoofer control when UCS1 subs are being added to the system.

## U15P

The U15P uses a combination of amplifier topographies to ensure reliability and superior loudspeaker performance. Two Class A/B amplifier modules deliver 150-watts each to the 1.75-inch horn driver, and to the three 5-inch ceramic drivers that make up the Unity horn assembly. An additional three-tier designed amplifier module delivers 600-watts to the 15-inch neodymium woofer.

Integrated DSP provides three-way internal crossover, time alignment, component protection, limiting and extremely accurate overall cabinet EQ. Time delayed output for accurate subwoofer alignment ensures the Unity U15P delivers maximum impact in systems where complex external processing isn't the preferred set-up solution.

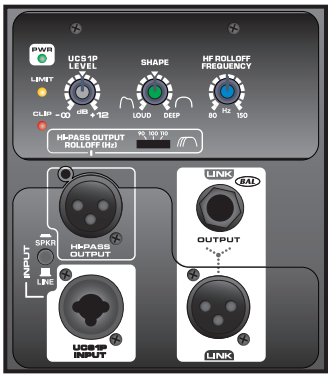
- Integrated 900 Watt Amplifier
- Tri-Amplified Power Module
- 15-inch Neodymium Woofer
- Patented 60° x 60° Conical Unity™ Horn
- 3 x 5-inch Midrange Drivers
- 1-inch Compression Driver
- Built-In Time Delay DSP
- XLR and 1/4-inch Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction




## UCS1P Subwoofer

The Active UCS1P is the ideal active subwoofer solution for use with any combination of Unity™ loudspeaker full-range cabinets. The 1500-watt integrated power amplifier takes full advantage of the cabinet's horn-loaded design and single 15-inch long excursion driver to deliver enough bottom end support for virtually any PA application.

The UCS1P can be connected to any line level signal source, including the time compensated output of the U15P via the XLR / TRS Combi-jack input. Built-in crossover circuitry means the UCS1P can be added to any system without complicated external crossovers being required.




- Integrated 1500 Watt Amplifier
- 15-inch Neodymium Woofer
- Horn-Loaded Cabinet Design
- 37Hz - 150Hz with Adjustable HF Roll-Off
- Bass Boost Level Control
- High-Pass Output Roll-Off Switch
- Parallel XLR & 1/4-inch Inputs (Selectable Line or Speaker Level)
- Integrated All Metal Speaker Pole Mount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction

# éXcursion Powered PA System Solutions

Yorkville's éXcursion Systems are the ideal marriage of our loudspeaker design experience and innovative electronics and power amplifier engineering into convenient PA system solutions. Built for live sound or DJ applications, éXcursion Systems are complete, self contained self powered systems with integrated crossover networks, system equalization, separate stereo full range and subwoofer level controls make the éXcursion Series the ultimate "Plug and Play" PA.

The simple concept behind the éXcursion Systems was to create powerful and effective active stereo PA systems centered around one active subwoofer and two stereo satellite loudspeakers. Designed to deliver maximum performance from the most compact components possible, éXcursion systems nest together for storage and transport. Convenient and highly mobile packages, éXcursion systems are ideal for rental houses or commercial PA applications and institutions where high-powered high performance PA systems are required, yet storage space may be at a premium.

XLR and 1/4-inch TRS balanced inputs ensure that éXcursion systems can be connected to any stereo mixer source quickly and easily. The satellite speakers are connected to the subwoofer with two 25-foot (8m) Speakon™ speaker cables that are included with either package. The system is powered by one AC line cord ensuring quick and convenient set-up and teardown, with a minimum of cabling.

Separate gain controls for the subwoofer and for the right and left satellite cabinets are easily accessible from the back panel, warning lights show the user when the system is limiting or clipping at the input.

All éXcursion Systems are built using solid, void-free plywood cabinet construction for added strength and long term reliability. The speaker components are protected with heavy gauge perforated metal grilles.

A detachable caster dolly is included with éXcursion systems, ensuring easy and safe transport and convenient storage. Unlike competitive system solutions, the caster kit from éXcursion Systems does not remain attached to the subwoofer when in use, eliminating caster buzz and rattle during live performances.

## éXcursion EX1

- 950-Watt Active PA System
- 650-Watt Subwoofer Amplifier
- Stereo 125-Watt Mid Range Amplifiers (Powering 8-Inch Satellite Speaker Drivers)
- Stereo 25-Watt High Frequency Amplifiers (Powering 1-Inch Satellite Speaker Horn Drivers)
- Voiced for Recorded Music Playback as well as Live Sound Reinforcement Applications
- System Nests Together for Easy Transportation and Storage
- Single 15-Inch Subwoofer with Integrated Power and Input Modules
- Two Bi-Amplified 8-Inch Satellite Speakers with 1-Inch Compression Drivers
- Integrated Electronic Crossover Network Ensures Acoustically Perfect Transition Between Subwoofer and Mid / High Satellite Speaker Components
- Superior Limiter Circuitry for Unobtrusive 'Musical Sounding' System Compression
- XLR Or 1/4-Inch TRS Balanced Inputs Connect Easily to Any Mixer Source
- Solid Plywood Cabinet Construction
- Detachable Swivel Caster Dolly Board with Velcro™ Tie Down Strap
- Entire System Powered by One AC Line Cord
- Two 8m (25') Speakon™ 4 Cables Included
- Integrated Bar Handles, Speaker Standmount Adaptors, All-Metal Grilles
- Available In Two Finishes - Black Ozite Carpet (**EX1**) or Black Painted Finish (**EX1B**)

# éXcursion EX2

- 1650-Watt Active PA System
- 1200-Watt Subwoofer Amplifier
- Stereo 225-Watt Amplifiers (Powering Satellite Speakers)
- Voiced for Recorded Music Playback or Live Sound Reinforcement Applications
- System Nests Together for Easy Transportation and Storage
- Single 18-Inch Subwoofer with Integrated Power and Input Modules
- Two 12-Inch Satellite Speakers with 1-Inch Compression Drivers
- 90° X 30° Injection Molded Horns
- Integrated Electronic Crossover Network Ensures Acoustically Perfect Transition Between Subwoofer and Satellite Speakers
- Superior Limiter Circuitry for Unobtrusive 'Musical Sounding' System Compression
- XLR or 1/4-Inch TRS Balanced Inputs Connect Easily to Any Mixer Source
- Solid Plywood Cabinet Construction
- Detachable Swivel Caster Dolly Board with Velcro™ Tie Down Strap
- Entire System Powered by One AC Line Cord
- Two 8m (25') Speakon™ Cables Included
- Integrated Bar Handles, Speaker Standmount Adaptors, All-Metal Grilles
- Available In Two Finishes - Black Ozite Carpet (**EX2**) or Black Painted Finish (**EX2B**)

*EX2 Input Panel*

*EX2 Output Panel*

*EX1 Rear Panel*

## *éXcursion Specifications:*

| MODEL | EX1 | EX2 |
|---|---|---|
| SYSTEM TYPE | Self Contained Loudspeaker System | Self Contained Loudspeaker System |
| ACTIVE OR PASSIVE | Active | Active |
| PROGRAM POWER (Watts) | 2x 150 / 650 | 2x 225 / 1200 |
| MAX SPL (dB) | 118 / 124 | 119 / 128 |
| FREQUENCY RESPONSE (Hz +/- 3db) | 45 - 19,000 | 42 - 18,000 |
| CROSSOVER FREQUENCY (Hz) | 130 / 3000 | 110 / 2200 |
| DRIVER CONFIGURATION | 2 x 1 x 8-inch / 1 x 15-inch | 2 1x12 inch / 1 1x18 inch |
| HF DRIVER(S) | 1.4-inch Aluminum | 1 inch Mylar |
| HF PROGRAM POWER (Watts) | 25 | 225 |
| HF HORN | ABS Custom Waveguide | ABS Custom Waveguide |
| HF DISPERSION (°H x °V) | 100 x 25 | 90 x 30 |
| HF PROTECTION | Clip / Thermal / Short Circuit | CTL |
| MF DRIVER(S) | 8-inch | 12 inch (2 inch voicecoil) |
| MF PROGRAM POWER (Watts) | 125 | 225 |
| MF PROTECTION | Clip / Thermal / Short Circuit | - |
| LF DRIVER(S) | 15 inch (2.5-inch voicecoil) | 18 inch (4 inch voicecoil) |
| SUBWOOFER PROGRAM POWER (Watts) | 650 | 1200 |
| LF PROTECTION | Clip / Thermal / Short Circuit | Excursion / Clipping / Thermal |
| SATELLITE POWER AMPLIFIER (Watts) | 25 x 2 (HF) / 125 x 2 (MF) | 225 (HF+MF) |
| LF POWER AMPLIFIER (Watts) | 650 | 1200 |
| | | |
| INPUTS | 2 x 1/4" Jacks / 2 x XLR | 2 x 1/4" Jacks / 2 x XLR |
| CONTROLS | Subwoofer level control / Left and Right satellite level controls | |
| HARDWARE | Wheels (Dolly Board) , Bar Handles, Pole Mount Adapter | |
| ENCLOSURE MATERIALS | 15mm 11-ply birch, Perforated Metal Grille | |
| COVERING / FINISH | Black Ozite carpet (EX1), Black Painted (EX1B) | Black Ozite carpet (EX2), Black Painted (EX2B) |
| | | |
| SATELLITE SPEAKERS (WxHxD in/cm) | 8.5x10.75x15.5 / 21.5x27.3x39.4 | 22.25x14.25x10.75 / 56.5x36.25x27.3 |
| | 17.7lbs / 8.1kgs | 33lbs / 14.9kgs |
| | | |
| SUBWOOFER (WxHxD in/cm) | 21.5x17.25x22.25 / 54.6x43.8x56.5 | 29.5x22x18.25 / 75x55.8x46.3 |
| | 81.2lbs / 36.8kgs | 112lbs / 51kgs |

*Specifications subject to change without notice.*

# NX Series

NX series cabinets are the next evolution in injection-molded loudspeaker technology from Yorkville Sound. The non-resonant Polypropylene construction materials, and an improved cabinet design with reinforced internal structure improves the low frequency response of NX Series boxes, making for a better and more balanced overall loudspeaker performance.

The modified trapezoidal shape of the NX series loudspeakers allows both active and passive versions to function flawlessly in any PA application. The reinforced cabinet design ensures a proper up-angle and stable footing when NX loudspeakers are employed as monitors, and allows NX cabinets to be packed in more compact arrays or multiple cabinet clusters.

Integrated bar handles and standmount adaptors allow the NX Series cabinets to be quickly and easily adapted to any mobile PA application. Proprietary flyware brackets are available for the NX Series designed to mount to integrated flypoints in the cabinets, allowing these rugged and reliable lightweight boxes to be flown in arrays or clusters, or mounted via wall mount adaptors safely to walls, under balconies or to structural pillars in virtually any installation.

## NX Passive Loudspeakers

### NX35

The 350-watt NX35 uses a premium high-powered and highly efficient Neodymium 12-inch woofer. The 80º x 50º horn design, patterned after the custom Waveguide horn technology used in Yorkville's popular élite loudspeaker line is used in the NX35. An improved dual bulb CTL™ protection circuit is now used to protect the aluminum diaphragm neodymium magnetic high frequency horn driver.

- 350 Watt Full Range Loudspeaker
- 12-inch Neodymium Woofer
- 1-inch Compression Driver (1.4-inch Voicecoil)
- Designed for Front-of-House or Monitor applications
- 80º x 50º ABS Custom Waveguide Horn
- Advanced CTL™ High Frequency Driver Protection
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 1/4-20 Flypoints
- Rugged Lightweight Molded Composite Cabinet Construction

### NX300

The rotatable 80º x 50º horn custom ABS waveguide horn used in the 15-inch NX300 allows this loudspeaker to be flown either horizontally or vertically, or close to walls and ceilings making an ideal fill cabinet for installations. Integrated flypoints in the NX300 ensure this injection-molded loudspeaker can be easily adapted for installation without modification to the cabinet.

- 300 Watt Full Range Loudspeaker
- 15-inch Ceramic Woofer
- 1-inch Compression Driver (1.5-inch Voicecoil)
- Designed for Front-of-House or Monitor applications
- 80º x 50º ABS Rotatable Custom Waveguide Horn
- Advanced CTL™ High Frequency Driver Protection
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 1/4-20 Flypoints
- Rugged Lightweight Molded Composite Cabinet Construction

### NX600

The 600-watt NX600 is the highest-powered passive cabinet in the series. Loaded with a Neodymium 15-inch woofer and rotatable 80º x 50º horn patterned after the custom Waveguide technology used in our popular élite loudspeaker line.

Yorkville's proven PTC™ (Positive Temperature Coefficient) protection used in the NX600 shines in heavy feedback environments where most horn diaphragm damage occurs. PTC™ will significantly reduce output level to the horn to protect the diaphragm until feedback is eliminated, at which point the horn will return to full operating level within half a second.

- 600 Watt Full Range Loudspeaker
- 15-inch Neodymium Woofer
- 1-inch Compression Driver (1.5-inch Voicecoil)
- Designed for Front-of-House or Monitor applications
- 80º x 50º ABS Rotatable Custom Waveguide Horn
- Advanced PTC™ High Frequency Driver Protection
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 1/4-20 Flypoints
- Rugged Lightweight Molded Composite Cabinet Construction

## NX25P

The NX25P offers the best value in a 12-inch and horn active molded loudspeaker cabinet. The enclosure is the same proven design as the NX35 passive loudspeaker and uses the same rugged and reliable speaker components. The bi-amplified 200-watt power module has a minimum of controls yet provides maximum versatility making the NX25P the ideal solution for many applications.

A three band EQ, XLR balanced microphone input as well as an XLR / TRS 1/4-inch balanced combi-jack line input on the power module means the NX25P can be easily connected to any source and quickly EQ balanced for the room. An XLR balanced line output allows multiple NX25P's to be linked together for use in an array or for easy distribution around a large room when used as repeater cabinets.

- Integrated 200-watt Bi-Amplified Power Module
- 180 watts (woofer) + 20 watts (Horn)
- 12-inch Ceramic Woofer
- 1-inch Compression Driver
- Designed for Front-of-House or Monitor Applications
- 80º x 50º Custom ABS Horn with Peak Limiter Protection
- Built-in Mixer with Two Band EQ and LF Roll-Off Mode Switch
- Paralleled XLR and 1/4-inch Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 1/4-20 Flypoints
- Rugged Lightweight Molded Composite Cabinet Construction

## NX55P

The NX55P active speaker enclosure uses a combination of amplifier technologies to create the best combination of light-weight enclosure and high quality sound. The combination of neodymium woofer magnetics, lightweight Polypropylene construction and high tech amplifier technology create a loudspeaker that has remarkable performance in a light-weight package.

The 550-watt bi-amplified NX55P uses two-tier class H linear technology for high frequencies, allowing the horn to produce loud clean transients to keep up with the high output of the woofer. The two-tier amplifier technology is a lower weight, more efficient amplifier with higher headroom and lower operating temperature, and a perfect solution for powering the top end. The woofer or low frequency amplifier uses Class D switching technology to reduce overall weight of the amplifier section, and deliver maximum power to the 12-inch neodymium woofer.

The NX55P has a versatile direct input system and built-in mixer. The mixer allows the loudspeaker to be used directly with a microphone and / or line source. The loop output allows additional active cabinets to be driven from one cabinet's mixer stage, or a series of cabinets to be driven from one source. The NX55P has user defeatable 100Hz high pass filters that allow either cabinet to be used more efficiently with any Yorkville active subwoofer.

- Integrated 550-watt Bi-Amplified Power Module
- 450 watts (woofer) + 100 watts (Horn)
- 12-inch Neodymium Woofer
- 1-inch Compression Driver
- Designed for Front-of-House or Monitor Applications
- 80º x 50º Custom ABS Horn with Peak Limiter Protection
- Built-in Mixer with Two Band EQ and LF Roll-Off Mode Switch
- Paralleled XLR and 1/4-inch Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 1/4-20 Flypoints
- Rugged Lightweight Molded Composite Cabinet Construction

# NX Powered Subwoofers

## NX750P

The biamplified power module delivers 650 Watts to the woofer and 100 Watts to the horn driver. The horn amplifier section uses two-tier class H linear technology, allowing the horn to produce loud clean transients to match the high output of the woofer. The woofer is powered by Class D switching technology similar to the power supply found in the trend-setting Elite EF500P's amplifier.

The NX750P can easily be used in any orientation – vertical or horizontal (*stand-mounted or as a floor monitor*) - close to walls in installations (*flypoints are built-in*) or in arrays with multiple NX750Ps.

There is also a versatile direct input system and built-in mixer that allows the NX750P to be used directly with a microphone and/or a line source.

- Integrated 750-watt Amplifier
- Bi-Amplified Power Module
- 15-inch Neodymium Woofer
- 1-inch Compression Driver
- Designed for Front-of-House or Monitor Applications
- 80º x 50º ABS Rotatable Custom Waveguide Horn
- Built-in Mixer with Two Band EQ and LF Roll-Off Mode Switch
- Paralleled XLR and 1/4-inch Inputs
- Integrated All Metal Speaker Standmount Adaptor
- Integrated 1/4-20 Flypoints
- Rugged Lightweight Molded Composite Cabinet Construction

## NX200S

The NX200S is an ultra-compact, high efficiency powered subwoofer that features a single 10-inch speaker and a built in 200-watt power module. The precisely tuned band-pass enclosure of the NX200S provides rock-solid low frequency output previously available only from much larger cabinets.

- Integrated 200-watt Amplifier
- 10-inch Neodymium Woofer
- Ultra Compact Subwoofer
- 50Hz - 300Hz Frequency Response
- Parallel 1/4-inch Selectable Line or Speaker Level Inputs
- Excursion, Peak and Thermal Woofer Protection
- Integrated All Metal Speaker Pole Mount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction

## NX720S

Delivering outstanding low-frequency support for a mid sized active subwoofer, the 720-watt NX720S has been designed from the ground up to be the ideal companion for any medium sized live sound or DJ PA. Built with the gigging musician in mind, the NX720S uses a single long excursion Neodymium magnet 15-inch woofer to deliver maximum impact in the 45 to 125 Hz range.

- Integrated 720 Watt Amplifier
- 15-inch Neodymium Speaker
- Compact High Powered Subwoofer Design
- 40Hz – 150Hz with Adjustable HF Roll-Off
- 45hz - 90hz Variable Boost Frequency
- Paralleled XLR and 1/4-inch Selectable Line or Speaker Level Inputs
- Excursion, Peak and Thermal Woofer Protection
- Integrated All Metal Speaker Pole Mount Adaptor
- Solid 5/8-inch (15mm) Birch Plywood Construction

## NX Passive Series Specifications:

| Model | NX35 | NX300 | NX600 |
|---|---|---|---|
| SYSTEM TYPE | Passive 2-Way | Passive 2-Way | Passive 2-Way |
| PROGRAM POWER (watts) | 350 | 250 | 600 |
| IMPEDANCE (ohms) | 8 | 8 | 8 |
| FREQ. RESPONSE (Hz +/- 3dB) | 60 - 18000 | 70 - 18000 | 60 - 20000 |
| SENSITIVITY (dB@1W/1m) | 100 | 97 | 98 |
| MAXIMUM SPL (dB) | 125 | 121 | 126 |
| X-OVER FREQUENCY (Hz) | 2000 | 2000 | 1300 |
| LF DRIVER(S) | 12" Neodymium | 15" Ceramic | 15" Neodymium 3" voicecoil |
| HF HORN | Molded Composite | Molded Composite | Molded Composite |
| HF DRIVER | 1" Aluminum | 1" Aluminum | 1.5" Polyester |
| HF HORN THROAT DIAMETER | 1" | 1" | 1" |
| HF DISPERSION (H° x V°) | 80 X 50 | 80 x 50 Rotatable | 80 x 50 Rotatable |
| HF PROTECTION | Dual Bulb CTL™ | Dual Bulb CTL™ | PTC™ |
| LF PROTECTION | - | - | - |
| CONSTRUCTION | Molded Composite | Molded Composite | Molded Composite |
| GRILLE | Perforated Metal | Perforated Metal | Perforated Metal |
| INPUTS | 2 x 1/4" / 1x Speakon™ | 2 x 1/4" / 1x Speakon™ | 2 x 1/4" / 1x Speakon™ |
| MIXER / CONTROLS | | | |
| | | | |
| | | | |
| LOOP IN / OUTPUTS | | | - |
| HANDLES | 1 x Side Bar | 1 x Side Bar | 1 x Side Bar |
| FLYWARE TYPE / QUANTITY | 1/4-20 x 5 | 1/4-20 x 5 | 1/4-20 x 5 |
| FLYWARE LOCATIONS | 2 Top / 1 Back / 2 Bottom | 2 Top / 1 Back / 2 Bottom | 2 Top / 1 Back / 2 Bottom |
| OPTIONAL ACCESSORIES | NXF Brackets | NXF Brackets | NXF Brackets |
| STAND MOUNT ADAPTOR | Yes | Yes | Yes |
| DIMENSIONS (DxWxHxBW inches) | 12.25 x 13.5 x 26.25 x 8.5 | 12.25 x 13.5 x 26.25 x 8.5 | 32 x 22 x 15 x 9.5 |
| DIMENSIONS (DxWxHxBW cm) | 31 x 34.25 x 66.5 x 21.5 | 31 x 34.25 x 66.5 x 21.5 | 84 x 56 x 38 x 24 |
| WEIGHT (lbs / kg) | 29 / 13 | 33 / 15 | 44 / 20 |

*Specifications subject to change without notice.*

## NX Powered Series Specifications:

| NX25P | NX55P | NX750P |
|---|---|---|
| Active 2-Way Bi-Amplified | Active 2-Way Bi-Amplified | Active 2-Way Bi-Amplified |
| 180 (LF) / 20 (HF) | 450 LF + 100 HF | 650 LF + 100 HF |
| - | - | - |
| 70 - 18000 | 45 - 18000 | 50 - 26000 |
| - | - | - |
| 120 | 125 | 126 |
| 2000 | 2000 | 1300 |
| 12" Ceramic | 12" Neodymium | 15" Neodymium 3" voicecoil |
| Molded Composite | Molded Composite | Molded Composite |
| 1" Aluminum w/ Neodymium | 1" Aluminum | 1.5" Polyester |
| 1" | 1" | 1" |
| 80 x 50 | 80 X 50 | 80 x 50 Rotatable |
| Peak Limiter | Thermal / Peak Limiter | Thermal/Peak Limiter |
| Peak Limiter | Thermal / Overcurrent | Thermal/Overcurrent |
| Molded Composite | Molded Composite | Molded Composite |
| Perforated Metal | Perforated Metal | Perforated Metal |
| Combi-jack 1/4" TRS / XLR-F Line | XLR-F (mic) 1/4" TRS balanced (x2) | XLR-F (mic) / 1/4" TRS x 2 |
| XLR-F Microphone Input | Mic/Line Gain / 2-Band EQ | Mic/Line Gain / 2-Band EQ |
| Microphone Gain / Line Input Gain | +/- 6 dB Input Trim Control | +/- 6 dB Input Trim Control |
| Bass / Mid / Treble Control | Subwoofer Tuning / Selection Switch | Subwoofer Tuning / Selection Switch |
| 1 x XLR-M | XLR-M / XLR-F 1/4" TRS balanced (x2) | XLR-M / XLR-F 1/4" TRS x 2 |
| 1 x Side Bar | 1 x Side Bar | 1 x Side Bar |
| 1/4-20 x 5 | 1/4-20 x 5 | 1/4-20 x 5 |
| 2 Top / 1 Back / 2 Bottom | 2 Top / 1 Back / 2 Bottom | 2 Top / 1 Back / 2 Bottom |
| NXF Brackets | NXF Brackets | NXF Brackets |
| Yes | Yes | Yes |
| 12.25 x 13.5 x 26.25 x 8.5 | 12.25 x 13.5 x 26.25 x 8.5 | 32 x 22 x 15 x 9.5 |
| 31 x 34.25 x 66.5 x 21.5 | 31 x 34.25 x 66.5 x 21.5 | 84 x 56 x 38 x 24 |
| 42 / 19 | 47 / 21.4 | 62 / 28 |

*Specifications subject to change without notice.*

## NX Subwoofer Specifications:

| Model | NX200S | NX720S |
|---|---|---|
| SYSTEM TYPE | Active Band Pass Subwoofer | Active Band Pass Subwoofer |
| PROGRAM POWER (watts) | 200 | 720 |
| FREQ. RESPONSE (Hz +/- 3dB) | 50 - 110 | 40 - 150 |
| MAXIMUM SPL (dB) | 125 | 128 |
| LF DRIVER(S) | 10" | 15" |
| LF PROTECTION | Thermal / Overcurrent / Clip | Thermal / Excursion / Clip |
| CONSTRUCTION | 15mm 11-ply Birch | 15mm 11-ply Birch |
| FINISH | Black Ultrathane | Black Ultrathane |
| ALTERNATE FINISH | Black Carpet (See LS200P) | Black Carpet (See LS720P) |
| GRILLE | Perforated Metal | Perforated Metal |
| INPUTS (1/4" / XLR) | 2 / none | 2 / 2 |
| MIXER CONTROLS | Line Source Gain | Gain |
| | Speaker / Line Level Input | HF Roll-off / Boost Frequency |
| LOOP IN / OUTPUTS | 1/4" TRS balanced (x2) | XLR (x2) |
| HANDLES | 1 Side Bar | 2 Side Bar |
| STAND MOUNT ADAPTOR | Yes Top | Yes Top |
| DIMENSIONS (DxWxHxBW inches) | 27 x 17.5 x 14 | 21.5 x 18.1 x 22.75 |
| DIMENSIONS (DxWxHxBW cm) | 69 x 44 x 36 | 54.6 x 46 x 57.8 |
| WEIGHT | 57 / 25.9 | 77.6 / 35.2 |

*Specifications subject to change without notice.*

# CX Passive Loudspeakers

## CX80

- Ultra Compact Two-Way Loudspeaker
- 8-inch Woofer / 1-inch Mylar Dome Tweeter
- 100 watts (8-ohm mode)
- 2 x 1/4-inch inputs / 1 x Speakon™ Input
- Heavy Duty ABS Plastic Cabinet and Metal Grille
- Integrated Standmount Adaptor

# CX Powered Loudspeakers

The CX80P can operate at either 115V/230V voltage, making it the ideal solution for highly mobile PA applications, demonstration stations or mobile presentation and public address systems.

Equipped with a 1/4-inch TRS balanced line input for direct connectivity to any source, as well as an auxiliary thru-put for connecting multiple CX80P's together for larger applications. Controls on the power module include Gain, Volume and Tone, with switchable mic/line input sensitivity.

## CX80P

- Ultra Compact Active Two-Way Loudspeaker
- 8-inch Woofer / 1-inch Mylar Dome Tweeter
- 100 Watt Integrated Amplifier
- 1/4-inch TRS Balanced Inputs
- Accepts Microphone or Line Level Inputs
- Gain, Volume and Tone Controls
- Heavy Duty ABS Plastic Cabinet and Metal Grille
- Integrated Standmount Adaptor

# NX Series Flying Hardware

The NXF flyware is a unique and versatile U-bracket system that attaches to the integrated flypoints on NX cabinets for a safe and secure installation. There are NXF flyware systems available for all NX enclosures including all versions of the passive and active loudspeakers.

Once mounted, the cabinets can be flown at almost any angle with a standard shackle and cable system. In addition, the cabinet can be angled up to 30 degrees left or right across the horizontal plane within the NXF U-bracket.

For wall-mounted installations, the NXF flyware bracket can be attached to an optional wall-mount bracket. This bracket can angle the NX cabinet downward up to 15 degrees and be securely attached to any wall or pillar.

Flying an array of NX cabinets with ideal spacing between boxes is possible by joining multiple NXF U-Brackets and their mounted cabinets together with a simple arraying adaptor.

Multiple flypoints on each bracket ensure the rig can be flown at virtually any angle and secured to the truss or roofing system with any of the typical flyware currently available.

**NXF Flyware for NX35, NX25P, NX55P**

**NXF35U** - Steel U-Bracket flying assembly

**NXF35W** - Wall Mounting Bracket *(to attach NXF35U assembly to wall or pillar)*

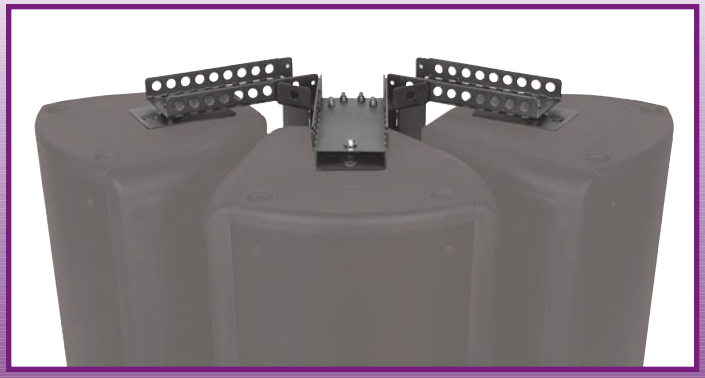
**NXF35A** - Array Link Assembly *(to properly array NXF35U flying assemblies - sold in sets)*

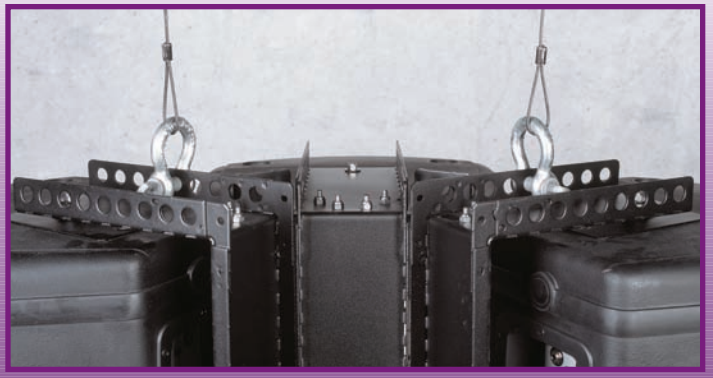
**NXF Flyware for NX300, NX600, NX750P**

**NXF600U** - Steel U-Bracket flying assembly

**NXF600W** - Wall Mounting Bracket *(to attach NXF600U assembly to wall or pillar)*

**NXF600A** - Array Link Assembly *(to properly array NXF600U flying assemblies - sold in sets)*





# YX Series

The YX Series delivers maximum performance in the most cost effective loudspeaker line ever offered by Yorkville Sound. Engineered in North America, YX Series cabinets and subwoofers benefit from Yorkville's forty plus years of PA enclosure design experience in the creation of these high performance general purpose loudspeaker enclosures.

YX Series cabinets use Custom ABS Waveguide injection molded horns with Yorkville's tried and true dual-bulb CTL™ protection system protects the horn driver's aluminum diaphragm, ensuring unmatched reliability in the field.

Designed with working musicians in mind, the YX Series offers rugged 5/8-inch plywood cabinet construction, all-metal bar handles, metal input plate, integrated speaker mounts and a custom punched, perforated metal grille to protect the speaker components.

A modified trapezoidal shape (YX10, YX12, YX15 and YX15P) ensures the YX Series can function equally as well as a front-of-house or monitor speaker. These cabinets are built road-ready with easy-to-clean, durable black carpet covering, solid internal plywood bracing and reinforced internal component mounts.

## Passive Loudspeakers

### YX10

- Designed for Front-of-House or Monitor Applications
- 150 Watts Program / 120dB Maximum SPL
- 10-inch Ceramic Low Frequency Driver
- 1.4-Inch Aluminum High Frequency Diaphragm
- 100º x 30º Custom ABS Waveguide Horn
- Innovative Dual Bulb CTL™ High Frequency Driver Protection
- Two Speakon™ and Two 1/4-inch Parallel Inputs
- Solid 5/8-inch (15mm) Plywood Construction
- Integrated Bar Handle, Perforated All-Metal Grille
- Integrated All Metal Speaker Standmount Adaptor

### YX12

- Designed for Front-of-House or Monitor Applications
- 200 Watts Program / 122dB Maximum SPL
- 12-inch Ceramic Low Frequency Driver
- 1.4-Inch Aluminum High Frequency Diaphragm
- 90º x 40º Custom ABS Waveguide Horn
- Innovative Dual Bulb CTL™ High Frequency Driver Protection
- Two Speakon™ and Two 1/4-inch Parallel Inputs
- Solid 5/8-inch (15mm) Plywood Construction
- Integrated Bar Handle, Perforated All-Metal Grille
- Integrated All Metal Speaker Standmount Adaptor

### YX15

- Designed for Front-of-House or Monitor Applications
- 300 Watts Program / 124dB Maximum SPL
- 15-inch Ceramic Low Frequency Driver
- 1.4-Inch Aluminum High Frequency Diaphragm
- 90º x 40º Custom ABS Waveguide Horn
- Innovative Dual Bulb CTL™ High Frequency Driver Protection
- Two Speakon™ and Two 1/4-inch Parallel Inputs
- Solid 5/8-inch (15mm) Plywood Construction
- Integrated Bar Handles, Perforated All-Metal Grille
- Integrated All Metal Speaker Standmount Adaptor

### YX150

Designed for any PA application where higher power and maximum clarity is required, the passive 400-watt YX150 uses a single 15-inch woofer and 2-inch horn to deliver a full 50Hz to 20kHz frequency response with unmatched low frequency linearity.

Yorkville's tried and true dual-bulb CTL™ protection system protects the horn driver's aluminum diaphragm ensuring unmatched reliability in the field. The YX150 is built road-ready with easy-to-clean, durable black carpet covering, solid internal plywood bracing and reinforced internal component mounts.

- Designed for Front-of-House or Monitor Applications
- 400 Watts / 122dB Max SPL
- 15-inch Woofer
- 2-inch Neodymium Compression Driver
- 90º x 40º Custom ABS Waveguide Horn
- Innovative Dual Bulb CTL™ High Frequency Driver Protection
- Two Speakon™ and Two 1/4-inch Parallel Inputs
- Solid 5/8-inch (15mm) Plywood Construction
- Integrated Bar Handles, Perforated All-Metal Grille
- Integrated All Metal Speaker Standmount Adaptor

# YX Passive Loudspeakers, Subwoofers & Monitors

## YX215

- Trapezoidal Front-of-House Loudspeaker Cabinet
- 600 Watts Program Power / 127dB Maximum SPL
- Dual 15-inch Ceramic Low Frequency Drivers
- 1.4-Inch Aluminum High Frequency Diaphragm
- 90º x 40º Injection Molded ABS Waveguide Horn
- Innovative Dual Bulb CTL™ High Frequency Driver Protection
- Two Speakon™ and Two 1/4-inch Parallel Inputs
- Solid 5/8-inch (15mm) Plywood Construction
- Integrated Bar Handles, Perforated All-Metal Grille
- Heavy Duty Wheels

***YX Series Specifications:***

| MODEL | YX18S | YX12M |
|---|---|---|
| SYSTEM TYPE | 2-Way | 2-Way |
| ACTIVE OR PASSIVE | Passive | Passive |
| PROGRAM POWER (Watts) | 400 | 200 |
| NOMINAL IMPEDANCE (Ohms) | 6 | 8 |
| SENSITIVITY (dB @1Watt/1m) | 98 | 99 |
| MAX SPL (dB) | 124 | 122 |
| FREQUENCY RESPONSE (Hz +/- 3db) | 45 - 150 | 65 - 20kHz |
| CROSSOVER FREQUENCY (Hz) | 1800 | 1800 |
| HF DRIVER(S) | - | 1.4-inch Aluminum (1-inch Throat) |
| HF HORN | - | Injected Molded ABS |
| HF DISPERSION (°H X °V) | - | 30 x 90 |
| HF PROTECTION | - | CTL™ |
| LF DRIVER(S) | 18-inch Ceramic | 12-inch Ceramic |
| INPUTS - 1/4" JACKS | 2 | 2 |
| INPUTS - SPEAKON 4-PIN | 2 | 2 |
| CORNERS | Metal | Metal |
| WHEELS | No | No |
| BAR HANDLES | 2 (Side) | No (1 Strap Handle) |
| POLE MOUNT ADAPTER (1 3/8"-3.5cm) | Yes | No |
| ENCLOSURE MATERIALS | 15mm (5/8inch) Plywood | 15mm (5/8inch) Plywood |
| GRILLE | Custom Punched Black Perforated Metal | Custom Punched Black Perforated Metal |
| COVERING / FINISH | Black Ozite | Black Ozite |
| Dimensions (DWH xbackW, inches) | 26 x 22 x 25 | 21.25 x 19.25 x 42 x 12 |
| Dimensions (DWH xbackW, cm) | 66 x 55.9 x 63.5 | 54 x 48.9 x 106.7 x 30.5 |
| Weight (lbs/kg) | 74 /33.6 | 37 / 16.8 |

*Specifications subject to change without notice.*

## YX18S

The passive YX18S uses the tried and true vented 18-inch front loaded bass reflex subwoofer design. The internal passive low-pass filter allows the 400-watt YX18S to be added to any system without additional external processing.

Solid plywood cabinet construction ensures the YX18S will remain rattle and buzz-free at the high volumes a subwoofer must endure.

- Passive Subwoofer
- 400 Watts Program Power / 123dB Maximum SPL
- 18-inch Ceramic Low Frequency Driver
- Two Speakon™ and Two 1/4-inch Parallel Inputs
- Solid 5/8-inch (15mm) Plywood Construction
- Integrated Bar Handles, Perforated All-Metal Grille
- Integrated All Metal Speaker Pole mount Adaptor

## YX12M

The YX12M delivers outstanding performance in a highly cost effective monitor package. Engineered in North America, the YX12M uses a single 12-inch driver and an injection molded 90° x 30° ABS Waveguide horn with 1-inch throat and 1.4-inch Celestion neodymium compression driver. Yorkville's tried and true dual-bulb CTL™ protection system protects the horn driver's aluminum diaphragm ensuring unmatched reliability in the field.

- Dedicated Low Profile Wedge Monitor
- 200 Watts Program Power / 122dB Maximum SPL
- 12-inch Woofer
- 1-inch Compression Driver (1.4-inch Voicecoil)
- 30º x 90º Injection Molded ABS Waveguide Horn
- Innovative Dual Bulb CTL™ High Frequency Driver Protection•
- Two Speakon™ and Two 1/4-inch Parallel Inputs
- Solid 5/8-inch (15mm) Plywood Construction
- Strap Handle, Perforated All-Metal Grille
- Integrated All Metal Speaker Standmount Adaptor

## YX Series Specifications:

| MODEL | YX10 | YX12 | YX15 | YX150 | YX215 |
|---|---|---|---|---|---|
| SYSTEM TYPE | 2-Way | 2-Way | 2-Way | 2-Way | 2-Way |
| ACTIVE OR PASSIVE | Passive | Passive | Passive | Passive | Passive |
| PROGRAM POWER (Watts) | 150 | 200 | 300 | 400 | 600 |
| NOMINAL IMPEDANCE (Ohms) | 8 | 8 | 8 | 8 | 4 |
| SENSITIVITY (dB @1Watt/1m) | 97 | 99 | 99 | 98 | 99 |
| MAX SPL (dB) | 118.7 | 122 | 123.7 | 122 | 126.7 |
| FREQUENCY RESPONSE (Hz +/- 3db) | 70 - 20k | 65 - 20k | 60 - 20k | 50 - 20k | 55 - 20k |
| CROSSOVER FREQUENCY (Hz) | 2000 | 1800 | 1800 | 1200 | 1800 |
| HF DRIVER(S) | 1.4-inch Aluminum (1-inch Throat) | 1.4-inch Aluminum (1-inch Throat) | 1.4 inch Aluminum (1-inch Throat) | 2-inch Mylar (1-inch Throat) | 1.4-inch Aluminum (1-inch Throat) |
| HF HORN | Injection Molded ABS | Injection Molded ABS | Injection Molded ABS | Injection Molded ABS | Injection Molded ABS |
| HF DISPERSION (°H X °V) | 100 x 30 | 90 x 40 | 90 x 40 | 90 x 40 | 90 x 40 |
| HF PROTECTION | Dual Bulb | Dual Bulb | Dual Bulb | Dual Bulb | Dual Bulb |
| LF DRIVER(S) | 10-inch Ceramic | 12-inch Ceramic | 15-inch Ceramic | 15-inch Ceramic | 15-inch Ceramic |
| INPUTS - 1/4" JACKS | 2 | 2 | 2 | 2 | 2 |
| INPUTS - SPEAKON 4-PIN | 2 | 2 | 2 | 2 | 2 |
| CORNERS | Metal | Metal | Metal | Metal | Metal |
| WHEELS | No | No | No | No | 2 |
| BAR HANDLES | 1 (Side) | 2 (Side) | 2 (Side) | 2 (Side) | 2 (Side) / 1(Top) |
| POLE MOUNT ADAPTER (1 3/8"-3.5cm) | Yes | Yes | Yes | Yes | Yes |
| ENCLOSURE MATERIALS | 15mm (5/8inch) Plywood | 15mm (5/8inch) Plywood | 15mm (5/8inch) Plywood | 15mm (5/8inch) Plywood | 15mm (5/8inch) Plywood |
| GRILLE | Custom Punched Black Perforated Metal | Custom Punched Black Perforated Metal | Custom Punched Black Perforated Metal | Custom Punched Black Perforated Metal | Custom Punched Black Perforated Metal |
| COVERING / FINISH | Black Ozite | Black Ozite | Black Ozite | Black Ozite | Black Ozite |
| Dimensions (DWH xbackW, inches) | 12 x 13.5 x 19 x 5.75 | 13.75 x 18 x 25.5 x 8.5 | 15.5 x 19.25 x 27.5 x 7.5 | 15.9 x 20.3 x 28.9 x 7.5 | 21.25 x 19.25 x 42 x 12 |
| Dimensions (DWH xbackW, cm) | 30.5 x 34.3 x 48.3 x 14.6 | 34.9 x 45.7 x 64.8 x 21.6 | 39.4 x 48.9 x 69.9 x 19 | 40 x 51 x 73 x 19 | 54 x 48.9 x 106.7 x 30.5 |
| Weight (lbs/kg) | 24 /10.9 | 37 /16.8 | 45 /20.4 | 52 /23.6 | 78 / 35.4 |

*Specifications subject to change without notice.*

# YX Powered Loudspeakers

## YX15P

The Active 200-watt YX15P offers the same highly effective modified trapezoidal shape as the passive 15-inch / 1-inch loaded YX15, making it ideal for front-of-house applications or for use as the ideal active monitor. This active loudspeaker will also function as the ideal 'repeater' cabinet in more complex systems where additional cabinets are required to effectively distribute sound around a large room.

XLR balanced microphone input as well as an XLR / 1/4-inch TRS balanced combi-jack line input on the power module means the YX15P can be easily connected to any source. A highly effective three-band EQ means the YX15P can be easily balanced for the room, ensuring simple system set-up.

- Active Speaker Designed for Front-of-House or Monitor Applications
- Integrated 200-watt Bi-Amplified Power Module
- 15-inch Ceramic Low Frequency Driver
- 1.4-Inch Aluminum High Frequency Diaphragm
- 90° x 40° Custom ABS Waveguide Horn
- Built-in Mixer with Three-Band EQ and LF Roll-Off Mode Switch
- XLR and 1/4-inch Inputs
- Solid 5/8-inch (15mm) Plywood Construction
- Integrated All Metal Speaker Standmount Adaptor

## YX15P Specifications:

| MODEL | YX15P |
|---|---|
| SYSTEM TYPE | 2-Way |
| ACTIVE OR PASSIVE | Active |
| PROGRAM POWER (Watts) | 200 |
| MAX SPL (dB) | 122 |
| FREQUENCY RESPONSE (Hz +/- 3db) | 60 - 20k |
| CROSSOVER FREQUENCY (Hz) | 1800 |
| HF DRIVER(S) | 1.4-inch Aluminum (1-inch Throat) |
| HF HORN | Injected Molded ABS |
| HF DISPERSION (°H X °V) | 90 x 40 |
| HF PROTECTION | Peak Limiter |
| LF DRIVER(S) | 15-inch Ceramic |
| INPUTS - 1/4" JACKS | 1 Line / 1 Mic (XLR Combi Jack) |
| CORNERS | Metal |
| WHEELS | No |
| BAR HANDLES | 2 (Side) |
| POLE MOUNT ADAPTER (1 3/8"-3.5cm) | Yes |
| ENCLOSURE MATERIALS | 15mm (5/8inch) Plywood |
| GRILLE | Custom Punched Black Perforated Metal |
| COVERING / FINISH | Black Ozite |
| Dimensions (DWH xbackW, inches) | 15.5 x 19.25 x 27.5 x 7.5 |
| Dimensions (DWH xbackW, cm) | 39.4 x 48.9 x 69.9 x 19 |
| Weight (lbs/kg) | 51 / 23.1 |

*Specifications subject to change without notice.*

# TX Series

## Proven Technology

Working with system designers as well as component manufacturers, Yorkville has incorporated leading-edge proprietary technology into the design of the TX Series. In-house design and manufacturing capabilities have enabled us to do exhaustive experimentation with horn design and driver implementation. Close working relationships with industry-leading driver manufacturers have yielded proven driver technologies that have been applied using state of the art network and enclosure design techniques.

## Foolproof TX Series Processing

The microprocessor-controlled TX processors calibrate the system to set the appropriate input levels to each of the bands by monitoring amplifier gain via feedback sense lines that return to the processor. Each band is constantly monitored (before and after the amplifier) to ensure safe operation through the use of a complex limiting circuitry which addresses the thermal excursion and musical aspects of limiting. Band mutes and level controls are also provided for each channel of the processor.

### *TX Cabinet & Processor Specifications:*

| **Loudspeaker Model** | **TX8** | **TX4** | **TX9S** |
|---|---|---|---|
| SYSTEM | 3-Way | 2-Way | Subwoofer |
| TYPE | Trapezoid | Trapezoid | Rectangular |
| DRIVER CONFIGURATION | HF: 2" -120W | HF: 2" - 120W | - |
| AND PROGRAM POWER | MF: 8" -100W | - | - |
| | LF: 2 x 15"- 400W | LF: 15"- 500W | LF: 2 x 18"- 850W |
| RECOMMENDED HF POWER | 200W @ 8 ohms | 200W @ 8 ohms | - |
| RECOMMENDED MF POWER | 200W @ 8 ohms | - | - |
| RECOMMENDED LF POWER | 1200W @ 4 ohms | 600W @ 8 ohms | 2000W @ 4 ohms |
| DISPERSION (H° x V°) | 60 x 40 | 60 x 40 | - |
| SENSITIVITY / IMPEDANCE | HF: 110 dB / 8 ohms | HF: 110 dB / 8 ohms | - |
| (1W @ 1m) | MF: 109 dB / 8 ohms | - | - |
| | LF: 104 dB / 4 ohms | LF: 99 dB / 8 ohms | LF: 98 dB / 4 ohms |
| MAXIMUM SPL | ~134 dB | ~127 dB | ~131 dB |
| FREQUENCY RESPONSE | 60 - 19,000 Hz | 50 - 19,000 Hz | 30 - 130 Hz |
| CONNECTORS | 2 - Speakon™ 8 | - | - |
| | 1 - Speakon™ 4 (sub out) | 2 - Speakon™ 4 | 2 - Speakon™ 4 |
| HF PROTECTION (Internal) | Hi-Pass Filter (12 dB / Octave) | Hi-Pass Filter (12 dB / Octave) | - |
| (PROCESSOR-BASED) | Limiter (Thermal & Excursion) | Limiter (Thermal & Excursion) | - |
| PROCESSOR | TX8P | TX4P | - |
| CONSTRUCTION | 3/4-inch (18 mm) Baltic Birch Plywood | 3/4-inch (18 mm) Baltic Birch Plywood | 3/4-inch (18 mm) Baltic Birch Plywood |
| | Screw Fastened,Triple Braced | Screw Fastened,Triple Braced | Screw Fastened,Triple Braced |
| EXTERIOR FINISH | Black Ultrathane (Painted Finish) | Black Ultrathane (Painted Finish) | Black Ultrathane (Painted Finish) |
| RIGGING | ATM Flyware™ | ATM Flyware™ | - |
| DIMENSIONS (inches) | 23.9 x 23.9 x 50 x 11.3 | 14.6 x 18.3 x 28 x 11 | 25 x 24 x 51 |
| D x W x H x BW (cm) | 60 x 60 x 127 x 29 | 37 x 46 x 71 x 27 | 63 x 61 x 130 |
| WEIGHT (lb/kg) | 206 / 93.4 | 89 / 40 | 208 / 94 |
| ***Processor Model*** | ***TX8P*** | ***TX4P*** | |
| CONTROLS (Switches) | Calibrate, Mute, Mode | Calibrate, Mute, Mode | - |
| CONTROLS (Pots) | Trim | Trim | - |
| LED INDICATORS | Power, Clip, Limit, Mute, Mode | Power, Clip, Limit, Mute, Mode | - |
| TYPE | Stereo, 3 or 4-way | Stereo, 2 or 3-way | - |
| RACK SPACES | 1 unit | 1 unit | - |
| INPUTS | XLR female (x2), 20 Kohms | XLR female (x2), 20 Kohms | - |
| MAX INPUT | +18 dB, 6 Vrms | +18 dB, 6 Vrms | - |
| OUTPUTS | XLR male (x8), 600 ohm min. | XLR male (x6), 600 ohm min. | - |
| MAX OUTPUT LEVEL | + 12 dBu, 3 Vrms | + 12 dBu, 3 Vrms | - |
| SENSE INPUTS | Speakon™4 (x4) | Speakon™4 (x3) | - |
| | Stereo 1 band / connector | Stereo 1 band / connector | - |
| TRIM CONTROLS | +/- 3 dB for HF, MF & LF | +/- 3 dB for HF & LF | - |
| | +/- 6 dB for Subwoofer | +/- 6 dB for Subwoofer | - |
| X-OVER POINTS (Hz) | ~300 & ~1700 (3 way mode) | ~125 & ~1300 (3 way mode) | - |
| | ~100, ~300 & ~1700 (4 way mode) | ~1200 (2 way mode) | - |

## TX Flyware

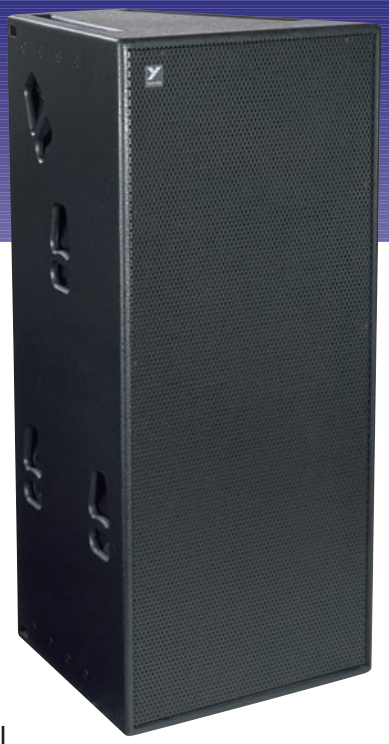
All trapezoidal TX-Series enclosures incorporate the AMTS series of internally braced flying hardware developed by ATM Fly-Ware™. The TX4 is equipped with internal braces (top and bottom) with recessed 3-inch long flytracks as well as 3/8-inch threaded eyelets. This unique combination enables the application of either track fittings or eyebolts for easy, adaptable and secure enclosure suspension.

The TX8 features a specially developed internal-brace module which provides the end user with the quickest, most flexible and most accurate method of configuring large-scale loudspeaker arrays. The track-based AMTS system has the capacity and capability to be arranged as either a vertically-stacked track system or as a rigid, horizontally-arranged modular system via the use of connecting bars that are attached with quick-release pin fasteners. In addition, both formats can be used within the same loudspeaker cluster in order to optimize setup time without compromising the acoustical characteristics of the loudspeaker array.

*Specifications subject to change without notice.*

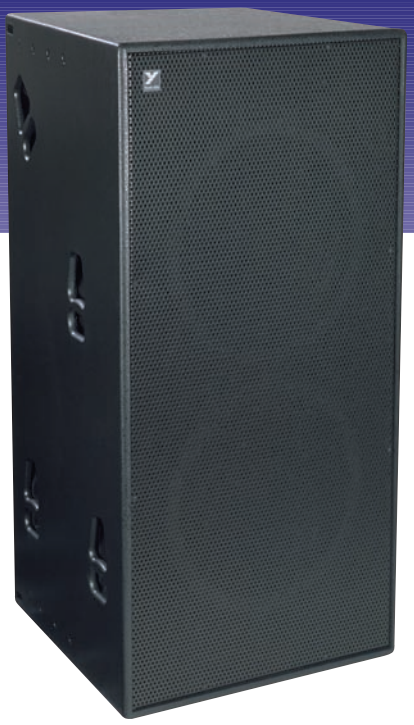
## TX4

- 600 Watt Full Range Cabinet
- Biamped Operation Only (Uses Yorkville TX4P Processor)
- 15-inch 500-watt Neodymium Woofer
- 2-inch 100-watt Compression Driver (1.5-inch Voicecoil)
- Maximum SPL 127dB
- 60º x 40º ABS Custom Waveguide Horn
- 2 x Speakon™ SP4 Parallel Inputs
- Triple Braced 3/4-inch (18mm) Birch Plywood Construction
- Integrated ATM™ Flytrack
- Integrated All Metal Speaker Standmount Adaptor
- Black Ultrathane Painted Finish



## TX8

- 1200-Watt 3-Way Enclosure
- Bi-Amped Operation Only (TX8P Analog Stereo Four-Way Processor)
- Large Motor 2-inch Titanium Diaphragm High Frequency Driver
- 60° X 40° Mid Frequency Horn
- 8-Inch Midrange Driver on Wave-Guide Horn
- Quasi-Horn Loaded Dual 15-inch Woofers
- Rigid Fully Braced Baltic Birch Enclosure
- Top and Bottom ATM Fly-Ware™ Flytrack with Internal Bumper System For Accurate and Cost Effective Rigging

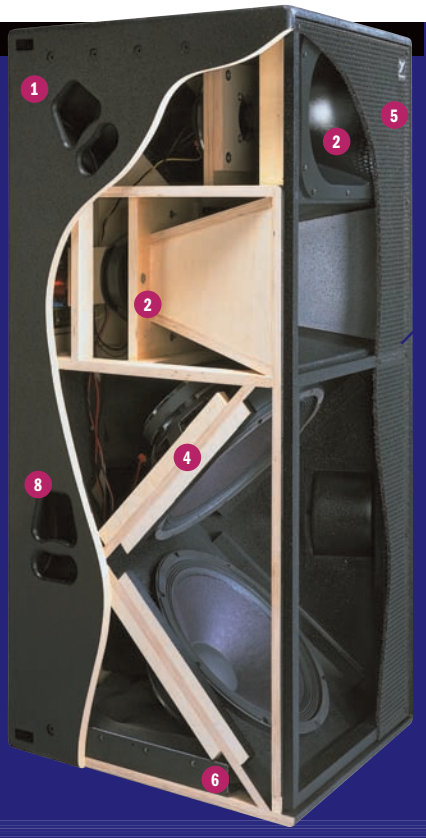


## TX9S

- 1700 Watt Subwoofer Cabinet
- Dual18-inch 850-watt Woofers
- Maximum SPL 131dB
- 2 x Speakon™ SP4 Parallel Inputs
- Triple Braced 3/4-inch (18mm) Birch Plywood Construction
- Black Ultrathane Painted Finish
- Optional Dollyboard

## FEATURE CHECKLIST

1. **High efficiency, compact trapezoidal enclosure designs**
2. **Advanced horn technology for controlled application of leading edge drivers from world-renowned manufacturers**
3. **Ultra-low distortion at extreme sound pressure levels**
4. **Solid 13-ply Baltic Birch enclosures with rigid bracing**
5. **Perforated 16 gauge, black painted metal grilles**
6. **Integrated, versatile ATM Fly-Ware™ AMTS series internal bumper, flytrack system and pole mount adaptors (TX4 only)**
7. **Excellent 'flown' performance in accurately formatted arrays with outstanding long distance projection**
8. **Integral, inset carry handles (and casters on the TX9S)**
9. **Dependable and Simple-to-Use, Highly Advanced Analog Signal Processors**
10. **Neutrik Speakon™ interconnects throughout**
11. **Enclosure dimensions configured for optimum truck pack**




TX8

# PowerMAX High Powered Desk Mixers

Yorkville has set the standard for professionally featured high powered mixing consoles with the PowerMAX PM16-2 and PowerMAX PM22-2.

With four integrated amplifiers delivering 3200 watts, the Yorkville PowerMAX can drive virtually any medium or large club venue for a typical band with an ample powered stereo front-of-house mix and two additional powered monitor mixes.

Built for maximum flexibility, the four 800-watt amplifiers in PowerMAX mixers can be assigned in any number of useful configurations using the integrated patch bay on the top panel.

Standard professional mixer features include mid-frequency sweep controls, switchable hi-pass filtering, two monitor sends, aux send, two effects sends, mute and solo switching with AFL/PFL select, stereo graphic EQ for mains, two monitor graphic EQs, and two integrated digital effects processors.

The PowerMAX PM22-2 has eighteen mono mic/line balanced channels with two additional stereo channels (19-22) while the PowerMAX PM16-2 includes twelve mono mic/line balanced channel inputs and two stereo line level channels (13-16). Mono channels one to six (one to twelve on the PM22) feature Yorkville's group-defeatable channel overload protection circuit.

## Features

- **4 x 800 watt Integrated Amplifiers**
- **2 x 24bit Internal Stereo Multi-Effect Processors**
- **2 x Pre-fade Auxiliary Sends (Monitors)**
- **3 x Post-fade Auxiliary Sends (Effects and Aux)**
- **Stereo 9-band Graphic EQ (Mains)**
- **2 x 9-band Mono Graphic EQ's (Monitors)**
- **3-band Channel EQ's with Mid Sweep (Mic Channels)**
- **4-band EQ's (Stereo Channels)**
- **Solo AFL/PFL & Mutes on All Input Channels**
- **Switchable 80Hz Hi-pass Filter on All Mic Input Channels**
- **Defeatable Channel Overload Protection (C.O.P.™)**
- **Selectable Speaker Processor Output (50/80Hz Boost)**
- **Top Mounted Output Patch Bay**
- **Global 48V Phantom Power**
- **Integrated Carry Handle**

## Specifications:

| Model | PowerMAX16-2 | PowerMAX22-2 |
|---|---|---|
| NUMBER OF CHANNELS | 16 | 22 |
| CHANNEL INSERTS | 7 TO12 | 13 TO 18 |
| MONO CHANNEL EQ | (CH.1 TO 12) | (CH.1 TO 18) |
| | High, Mid Sweep, Mid, Low | High, Mid Sweep, Mid, Low |
| STEREO CHANNEL EQ | (CH.13 TO 16) | (CH.19 TO 22) |
| | High, High Mid, Low Mid, Low | High, High Mid, Low Mid, Low |
| CHANNEL EFFECTS | All Channels | All Channels |
| MONITORS EFFECTS | YES | YES |
| BALANCE CONTROLS | 13 TO16 | 19 TO 22 |
| PAN CONTROLS | 1 TO 12 | 1 TO 18 |
| CHANNEL OVERLOAD PROTECTION | 1 TO 12 | 1 TO 12 |
| INPUTS - XLR (BAL) | CH. 1 - 12 | CH. 1 - 18 |
| INPUTS - 1/4" | CH. 1 - 16 | CH. 1 - 22 |
| INPUTS - RCA (UNBAL) | 2 Stereo Sets | 2 Stereo Sets |
| SOLO SWITCHES | All Channels, MON1, MON2, EFX Returns | All Channels, MON1, MON2, EFX Returns |
| MUTE SWITCHES | All Channels | All Channels |
| HI PASS SWITCHES | Channels 1 TO 12 | Channels 1 TO 18 |
| ACTIVITY / SOLO LED | All Channels | All Channels |
| CLIP /MUTE LED | All Channels | All Channels |
| PHANTOM POWER | 48 V + LED indicator | 48 V + LED Indicator |
| VU METER | 2 X 12 LEDS with Floating Peak Headphone | 2 X 12 LEDS with Floating Peak Headphone |
| MONITOR FEATURES | Level, AFL/PFL Switch, 1/4-inch Stereo | Level, AFL/PFL Switch, 1/4-inch Stereo |
| INTERNAL EFFECTS | 2 X16 BIT Stereo, 16 Effects with Parameter Pot | 2 X16 BIT Stereo, 16 Effects with Parameter Pot |
| AUXILIARY SENDS | 1 TRS | 1 TRS |
| EFFECTS SEND | 2 (1 Internal , 1 Internal / External) | 2 (1 Internal , 1 Internal / External) |
| EFFECTS RETURN | 2 Stereo Pairs on 1/4 Inputs | 2 Stereo Pairs on 1/4 Inputs |
| EFFECTS RETURN TO MAIN | YES | YES |
| EFFECTS RETURN TO MONITOR | YES | YES |
| REVERB / EFFECTS FOOTSWITCH | YES | YES |
| RECORD OUTPUTS | 1 Stereo RCA | 1 Stereo RCA |
| MAX GAIN TO LINE OUT -MIC INPUT (DB) | 72 | 72 |
| MAX GAIN TO LINE OUT -LINE INPUT (DB) | 56 | 56 |
| MASTER EQ -1 (TYPE /CHANNELS /RANGE - DB) | Graphic / Stereo / 9 Band 63 HZ - 16,000 HZ | Graphic / Stereo / 9 Band 63 HZ - 16,000 HZ |
| MONITOR EQ -1 (TYPE /CHANNELS /RANGE - DB) | Graphic / Mono / 9 Band 63 HZ - 16,000 HZ | Graphic / Mono / 9 Band 63 HZ - 16,000 HZ |
| MONITOR EQ -2 (TYPE /CHANNELS /RANGE - DB) | Graphic / Mono / 9 Band 63 HZ - 16,000 HZ | Graphic / Mono / 9 Band 63 HZ - 16,000 HZ |
| MAIN OUTPUTS ( LINE LEVEL) | MAIN L/R (1/4-inch TRS) | MAIN L/R (1/4-inch TRS) |
| MAIN AMP INPUTS (LINE LEVEL) | AMP A/B (1/4-inch TRS) | AMP A/B (1/4-inch TRS) |
| MONITOR OUTPUTS (LINE LEVEL) | MON 1/2 (1/4-inch TRS) | MON 1/2 (1/4-inch TRS) |
| MONITOR AMP INPUTS (LINE LEVEL) | AMP C/D (1/4-inch TRS) | AMP C/D (1/4-inch TRS) |
| OUTPUTS - AMP A - 1/4-INCH JACKS | 2 | 2 |
| OUTPUTS - AMP A - SPEAKON 4-PIN | 1 | 1 |
| OUTPUTS - AMP B - 1/4-INCH JACKS | 2 | 2 |
| OUTPUTS - AMP B - SPEAKON 4-PIN | 1 | 1 |
| OUTPUTS - AMP C - 1/4-INCH JACKS | 2 | 2 |
| OUTPUTS - AMP C - SPEAKON 4-PIN | 1 | 1 |
| OUTPUTS - AMP D - 1/4" JACKS | 2 | 2 |
| OUTPUTS - AMP D - SPEAKON 4-PIN | 1 | 1 |
| MIXER - SIGNAL TO NOISE RATIO (DB) | Greater Than 100 | Greater Than 100 |
| MIXER - FREQUENCY RESPONSE | 20 HZ - 20,000 HZ (Tone and EQ Flat,+/-2DB) | |
| MIXER - INPUT REFERRED NOISE TO LINE OUT, | -117 (@ 150 OHMS (DBV)) | |
| MIXER THD (MAIN OUT W/ -10DB INPUT) | Less Than 0.03% | Less Than 0.03% |
| AMP A - POWER OUTPUT @ 8 OHMS | 600 (0%1"THD,1KHZ) | 600 (0%1"THD,1KHZ) |
| AMP A - POWER OUTPUT @ 4 OHMS | 800 (900 with 1CH Driven) | 800 (900 with 1CH Driven) |
| AMP B - POWER OUTPUT @ 8 OHMS | 600 (0%1"THD, 1KHZ) | 600 (0%1"THD, 1KHZ) |
| AMP B - POWER OUTPUT @ 4 OHMS | 800 (900 with 1CH Driven) | 800 (900 with 1CH Driven) |
| AMP C - POWER OUTPUT @ 8 OHMS | 600 (0%1"THD, 1KHZ) | 600 (0%1"THD, 1KHZ) |
| AMP C - POWER OUTPUT @ 4 OHMS | 800 (900 with 1CH Driven) | 800 (900 with 1CH Driven) |
| AMP C - POWER OUTPUT -OTHER | 600 | 600 |
| AMP D - POWER OUTPUT @ 8 OHMS | 600 (0%1"THD, 1KHZ) | 600 (0%1"THD, 1KHZ) |
| AMP D - POWER OUTPUT @ 4 OHMS | 800 (900 with 1CH Driven) | 800 (900 with 1CH Driven) |
| AMP D - POWER OUTPUT -OTHER | 600 | 600 |
| THD - 1KHZ (DB) | 0.10% | 0.10% |
| THD - 20HZ-20KHZ (DB) | 0.50% | 0.50% |
| HUM AND NOISE (UN / AWEIGHT -DB) | -103 | -103 |
| TYPICAL CROSSTALK -1 KHZ (DB) | Less Than -60 | Less Than -60 |
| INPUT IMPEDANCE - BAL/UNBAL (OHMS) | 22,000 / 12,000 | 22,000 / 12,000 |
| INPUT SESITIVITY (VRMS SINE) | 1.4 V | 1.4 V |
| CMRR @ 60HZ (MIN/TYP) | 54 DB / 66 DB | 54 DB / 66 DB |
| MAX VOTAGE GAIN (DB) | 32 | 32 |
| POWER CONSUMPTION (TYP/MAX) | 660 VA / 1800 VA | 660 VA / 1800 VA |
| PROTECTION | Thermal / Load / DC | Thermal / Load / DC |
| COOLING | 4X Variable Speed DC Fan | 4X Variable Speed DC Fan |
| TRANSFORMER TYPE | Toroidal | Toroidal |
| FINISH | Scratch Resistant Vinyl-Coated Aluminum | Scratch Resistant Vinyl-Coated Aluminum |
| CONSOLE LAMP CONNECTOR 12V DC (BNC) | YES | YES |
| OTHER FEATURES | ** MAIN AMP / MON AMP | ** MAIN AMP / MON AMP |
| DIMENSIONS (DWH, INCHES) | 19 X 25.8 X 5.2 | 19 X 31.3 X 5.2 |
| DIMENSIONS (DWH, CM) | 48.3 X 65.5 X 13.2 | 48.3 X 79.5 X 13.2 |
| WEIGHT (LBS/KG) | 48.5 / 21.9 | 54.5 / 24.8 |

*Specifications subject to change without notice.*

# MC12D

## Passive Desktop Wedge Mixer

The unique shape of the MC12D passive mixer delivers a full feature set in an extremely compact desk space. Designed and built for live PA, the unique wedge shape of the mixer angle allows maximum visibility of the channel controls even in the tightest workspace. A full feature set includes 100mm faders, 3-band channel EQ with mid sweep, Two pre and two post aux sends per channel, integrated digital effects and one highly effective 9-band master graphic EQ's (with high & low shelving) make the MC12D the ideal mixer for artists working a busy club schedule.

### *MC12D Specifications:*

| | |
|---|---|
| NUMBER OF CHANNELS | 12 |
| CHANNEL INSERTS | 1 TO 8 |
| MONO CHANNEL EQ | (CH.1 TO 8) High, Mid Sweep, Mid, Low |
| STEREO CHANNEL EQ | (CH.9 TO 12) High, Mid, Low |
| CHANNEL EFFECTS | All Channels |
| MONITORS EFFECTS | Yes |
| BALANCE CONTROLS | 9 TO 12 |
| PAN CONTROLS | 1 TO 8 |
| CHANNEL OVERLOAD PROTECTION | 1 TO 8 |
| INPUTS - XLR (BAL) | 1 TO 12 |
| INPUTS - 1/4-INCH | 1 TO 12 |
| INPUTS - RCA (UNBAL) | Stereo Sets and REC In |
| SOLO SWITCHES | All Channels, MON1, MON2, EFX Sends and Returns |
| MUTE SWITCHES | All Channels |
| HI PASS SWITCHES | Channels 1 TO 8 |
| ACTIVITY / SOLO LED | All Channels |
| CLIP /MUTE LED | All Channels |
| PHANTOM POWER | 48 V + LED Indicator |
| VU METER | 2 X 12 LEDS with Floating Peak |
| HEADPHONE MONITOR FEATURES | Level, AFL/PFL Switch, 1/4-inch Stereo |
| INTERNAL EFFECTS | 16 Bit Stereo, 16 Effects with Parameter Pot |
| AUXILIARY SENDS | 1 TRS |
| EFFECTS SEND | 1 Internal, 1 External |
| EFFECTS RETURN | 2 Stereo Pairs on 1/4-inputs |
| EFFECTS RETURN TO MAIN | Yes |
| EFFECTS RETURN TO MONITOR | Yes |
| REVERB / EFFECTS FOOTSWITCH | Yes |
| RECORD OUTPUTS | 1 Stereo RCA |
| MAX GAIN TO LINE OUT -MIC INPUT (DB) | 80 |
| MAX GAIN TO LINE OUT -LINE INPUT (DB) | 78 |
| MASTER EQ -1 (TYPE /CHANNELS /RANGE - DB) | Graphic / Stereo / 9 Band 160 HZ - 6300 HZ |
| MAIN OUTPUTS ( LINE LEVEL) | MAIN L/R (1/4-inch TRS, XLR) |
| MONITOR OUTPUTS (LINE LEVEL) | MON 1/2 (1/4-inch TRS) |
| MIXER - SIGNAL TO NOISE RATIO (DB) | Greater Than 100 |
| MIXER - FREQUENCY RESPONSE | 20 HZ - 20,000 HZ (Tone and EQ Flat, +/-2DB) |
| MIXER - INPUT REFERRED NOISE TO LINE OUT | -123 (@ 150 OHMS (DBV) |
| MIXER THD (MAIN OUT W/ -10DB INPUT) | Less Than 0.03% |
| FINISH | Scratch Resistant Vinyl-Coated Aluminum |
| CONSOLE LAMP CONNECTOR 12V DC (BNC) | Yes |
| DIMENSIONS (DWH, INCHES) | 19.6 X 19.6 X 5.6 |
| DIMENSIONS (DWH, CM) | 49.8 X 49.8 X 14.2 |
| WEIGHT (LBS/KG) | 19 / 8.6 |

*Specifications subject to change without notice.*

### Two Stereo Channels

- 3-band EQ
- PFL / AFL
- Two 1/4-inch Inputs Plus Additional XLR
- Dual RCA inputs with separate trim control

### Eight Mono Mic/Line Channels

- Built in Compressor / Limiter with Visual Indication of Gain Reduction
- High Pass Filter & Channel Mute
- 3-Band EQ with Sweep Mid and Expanded Cut Range (-20dB)
- Post EQ Inserts
- PFL / AFL
- Channels 7 & 8 Have Additional High Impedance Instrument Inputs

### Other Features

- Media In / Out with Separate Level Controls
- Four Aux Sends (Two Pre, Two Post Fader)
- Two Stereo Effects Returns with 2x Monitor Sends & Pan Control
- Stereo 12 Segment VU Meter
- High Power Headphone Output
- Mono Zone Output with Switchable Crossover Subwoofer Output
- One 9-Band Stereo Graphic EQ's with High / Low Shelving Filters
- BNC Lamp Output
- 16 On Board Digital Effects with Modify Control
- 100mm Faders
- Unique Highly Visible Wedge Mixer Format
- Designed and Manufactured In North America

# Understanding Amplifier Power Ratings

When looking over specifications for any piece of professional audio equipment, you're inundated with what can seem to be a confusing pile of numbers called the Specification Chart. When trying to make a purchasing decision the specifications can be a guide to the expected performance of the product and a great starting point for comparison. The specifications cannot however always tell you the whole story, and in some cases, the 'biggest number' might not be the best sounding solution.

## Continuous Average Power vs. Burst Average Power

When you're looking at a power amplifier or powered mixer, output power is the most important specification when making a decision about what might be best for any given application. To get the whole picture however, any one number will not tell you the entire story. In Yorkville specification charts on our web site and in this magazine you will see our power amplifiers rated as 'Continuous Average Power' and 'Burst Average Power.' You must examine both to better understand the capabilities of the amplifier.

Continuous Average Power is the traditional measure of an amplifier's power, and the standard we have been using for over forty years. It is also the most conservative figure, and hence is often considered the most credible.

***Note*** *- For most applications, a good rule of thumb when deciding what amplifier works best with your particular speaker combination is to compare the amplifier's Continuous Average Power to your speaker's Program Power rating at the speaker's total impedance. For example, the élite E1152 loudspeaker is rated at 1200 watts Program Power at 4 ohms. Looking at the 'Continuous Average Power' specification of the AudioPro AP4040 power amplifier and you see it delivers 1200 Watts per channel at a 4-ohm load. This tells you the amplifier delivers a little more power than you need for those cabinets, which in effect is a little extra 'headroom' when used with a pair of E1152's. This makes the AP4040 the right choice for that cabinet.*

Continuous Average Power is measured by driving the amplifier with a continuous sine wave into a fixed resistance. On a bench test, this is generally a fixed load resistor. This is a valid test of the amplifier's ability to drive a single continuous tone without complex harmonics into a standardized load. Musically speaking, an amplifier does not always see long sustained tones without harmonics or transients.

If you listen to two different amplifiers rated at 1000 watts Continuous Average Power, and realize one sounds different from the other, your first clue might be to look at the Burst Average Power. That larger Burst Average Power number is a good indication of the amplifier's ability to handle real musical program.

Real music consists of transient bursts, complex waveforms and even far more complex harmonic content than pure sine waves. Transients occur in music for two reasons. Most musical sounds have an attack with a higher energy at the beginning and most music consists of multiple sources and notes. When the peaks coincide, additional power is necessary to prevent clipping.

The real differences between amplifiers appears when we push them right to the max. The differences you hear are often the ability of the amplifier to put a little extra voltage out for a short time (to power the transients) or drive signal into higher impedances than the rated minimum (more on that later).

The best indicator we have for this ability to cope with transients and impedance shift is something we call 'Burst Average Power.' Burst Average Power is tested over a 40 ms burst cycle which we feel represents the longest real world musical transient, for example the full cycle of a kick drum. - a valid indication of the amplifier's reaction to real musical program.

Here is where Yorkville chooses to take a different approach than some other manufacturers to our specifications. Some choose to list 'Peak Power' as opposed to a Burst Average Power number in their specifications. The 'Peak Power' rating, while an impressive number, is measured over the smallest possible time period. Since this measurement is much less than a full sine wave cycle, the number becomes inflated by more than a factor of two when you do the math, and a number that Yorkville chooses not to list in our specifications.

**Example:** In the case of the AudioPro AP6040 power amplifier, we publish the Continuous Average Power as 2000 watts per channel at 4 ohms, and a burst average power of 3625 watts per channel. We could choose to show a Peak Power rating of 9500 watts per channel at 4 ohms, and the math proves it. As impressive as that number is, it is not indicative of the amplifier's performance in the field.

## Fixed Impedance in the Lab vs. Changing Impedances in the Real World

An amplifier has to be able to have extra voltage available to deal with the increased impedances of a loudspeaker during performance. That 'voltage' is directly related to the burst average power number on the amplifier's specification, but not accurately expressed in the 'Continuous Average Power' specification.

The impedance of a loudspeaker rises for several reasons during a performance. The voice coil resistance increases as the voice coil heats up under hard use, and often a loudspeaker rated at (for example) 8 ohms may not really be an 8 ohm load on the amplifier all of the time.

The impedance variation of a loudspeaker playing at different frequencies can be substantial. For example it's not uncommon to see a speaker rated by the manufacturer at 8 ohms, measure 8 ohms at 50Hz when cold, but 12 ohms at 50Hz when hot. That same speaker might measure closer to 30 ohms at a frequency of 90Hz. The extra voltage available as burst average power translates to more available power at that frequency for that 90Hz hit.

**Note** - You might want to know that 90Hz is the transient attack frequency of a kick drum.

If you don't have that essential burst average power available for the entire duration of that kick drum hit, you won't feel that kick drum, and might feel an amplifier sounds 'wimpy'. The ability of the amplifier to put out extra voltage into this higher impedance can translate into more than doubling the power in some musical situations – and as most people know, 'louder' is usually perceived as 'better'.

# AudioPro

## Powered Desk Mixers

AudioPro mixers combine the power and features most required for pro audio applications. Functional graphics, non-slip wrist-supports, color-coded rubberized knobs, 60mm slide pots and sturdy steel chassis finished in scratch-resistant, grey vinyl. Inside, the exclusive SilentFan™ cooling assures quiet operation and efficient heat dissipation.

## AP818

### 800-watt 18 Channel Desk Mixer

Putting out more than 800 watts (2x400 watts), the eighteen channel AP818 stereo powered console mixer delivers the power and features required for demanding professional audio applications.

Input channels include gain, three-band EQ (mid-frequency sweeps), EFX level and pan controls as well as a clip indicator. Channels 1 to 14 are mono with XLR and 1/4-inch phone jack inputs, while channels 15 to 18 are configured in stereo with RCA inputs and cueing switches – perfect for CD/MP3 sources.

Patching includes switchable mains/monitor amp assignment and inputs / outputs for external audio processing. Rear-mounted Speakon™ and 1/4-inch phone jacks are provided for flexible speaker output.

Two assignable 9-band graphic EQs, a 255-preset footswitchable digital effects processor, phantom power, effects return fader, headphone jack, two LED VU meters, amp clip LEDs, easy access top-mounted input and output jacks, rubber-surround rotary knobs and an attractive, durable finish make the AP818 an ideal powered desk solution for virtually any live sound, club or installation application.

## AP812

### 800-watt 12 Channel Desk Mixer

The AP812 includes all of the power and features of the AP818 but eight mono channels instead of fourteen. Channels 9 to 12 are configured in stereo, with RCA inputs and cueing switches for live or recorded music applications. Patching includes switchable mains/monitor amp assignment along with enough inputs and outputs for hassle-free external audio processing. The Speakon™ and 1/4-inch phone jacks are rear-mounted for convenient speaker output.

Sweep-mid controls, two assignable 9-band Graphic EQs, a 255-preset footswitchable digital effects processor, phantom power, effects return fader, headphone jack, two LED VU meters, easy access top-mounted inputs and outputs, rubber-surround rotary knobs, smooth 60mm faders.

***Optional 19-inch rackmount kit (RK812) is available for the AP812.***

## Amplifier Section Specifications:

| | AP818 / AP812 |
|---|---|
| ONE CHANNEL DRIVEN | Cont. Avg. Power Output |
| (0.1% THD, 1kHz) | |
| 8 ohms: | 240 watts |
| 4 ohms: | 455 watts |
| | |
| BOTH CHANNELS DRIVEN INTO | |
| VARIOUS LOADS | Cont. Avg. Power Output |
| (0.1% THD, 1kHz) | |
| 8 : 8 ohms: | 240 : 240 watts |
| 8 : 4 ohms: | 220 : 425 watts |
| 8 : 2 ohms: | 200 : 300 watts |
| 4 : 4 ohms: | 410 : 410 watts |
| | |
| THD (1 kHz, 1 dB below full power): | < 0.03% |
| HUM & NOISE (unweighted): | -101 dB |
| TYPICAL CROSSTALK (1kHz): | -66 dB |
| INPUT IMPEDANCE (Bal/UnBal): | 22 kOhms / 12 kOhms |
| INPUT SENSITIVITY (VRMS Sine): | 1.47 V (400W / 4 ohms) |
| CMRR @ 60Hz (Min/Typ): | 54 dB / 66 dB |
| MAX VOLTAGE GAIN: | 29 dB |

### System Specifications

| | |
|---|---|
| PROTECTION: | Thermal / Load / DC |
| COOLING: | Variable Speed DC Fan |
| TRANSFORMER TYPE: | Toroidal |
| POWER CONSUMPTION: | 660 VA (typ) / 1200 VA (max) |

*Specifications subject to change without notice.*

## Mixer Section Specifications:

| | AP818 / AP812 |
|---|---|
| FREQ. RESPONSE (Tone & EQ Flat, +/- 2dB): | 20 Hz to 20 kHz |
| THD (Main out w/-10dB input): | 0.03% |
| INPUT REFERRED NOISE (to line out): | -117 dBv @ 150 ohms |
| PHANTOM POWER: | 24 V |
| MAX. GAIN TO LINE OUT (Mic Input): | +63 dB |
| (Line Input): | +45 dB |
| DIGITAL EFFECTS PROCESSOR: | 16 Bit; 255 Effects |
| PRIMARY GRAPHIC EQUALIZER TYPE: | 9 Band Assignable |
| PRIMARY GRAPHIC EQUALIZER RANGE: | 63 Hz to 16 kHz |
| SECONDARY GRAPHIC EQUALIZER TYPE: | 9 Band Assignable |
| SECONDARY GRAPHIC EQUALIZER RANGE: | 63 Hz to 16 kHz |
| | |
| NUMBER OF CHANNELS: | 18 / 12 |
| AP818 CHANNEL EQ (ch.1 to 14): | Low, Mid Sweep, Mid Level, High |
| AP812 CHANNEL EQ (ch.1 to 8): | Low, Mid Sweep, Mid Level, High |
| AP818 CHANNEL EQ (ch. 15/16 & 17/18): | Low, Mid, High |
| AP812 CHANNEL EQ (ch. 9/10 & 11/12): | Low, Mid, High |
| CHANNEL EFFECTS / MONITOR EFFECTS: | Yes / Yes |
| | |
| BALANCED XLR INPUTS: | 12 / 8 |
| BALANCED 1/4" INPUTS: | 18 / 12 |
| UNBALANCED RCA INPUTS: | 4 |
| MAIN OUTPUT / AMP INPUT: | Yes (2 x 1/4" TRS) |
| MONITOR OUT / MON. AMP IN: | Yes (1/4" TRS) |
| AP818 SPEAKER OUTPUTS: | 4 x 1/4" & 2 x Speakon™ |
| AP812 SPEAKER OUTPUTS: | 4 x 1/4" & 2 x Speakon™ |
| MASTER EQ / MONITOR EQ: | Yes |
| HEADPHONE MONITOR: | Yes (Switchable) |
| REVERB / EFFECT FOOTSWITCH: | Yes |
| | |
| FINISH: | Grey, Scratch-Resistant Vinyl |
| RACKMOUNT: | 19" (Optional) – AP812 only |
| DIMENSIONS OF AP818 (WxDxH inches / cm): | 25.3 x 18.0 x 5.5 / 64.3 x 45.7 x 14.0 |
| DIMENSIONS OF AP812 (WxDxH inches / cm): | 19.0 x 18.0 x 5.5 / 48.3 x 45.7 x 14.0 |
| WEIGHT AP818 / 812 (lbs): | 43.0 / 38.0 |
| WEIGHT AP818 / 812 (kg): | 19.5 / 17.3 |

*Specifications subject to change without notice.*

# The Speaker System
# Cable Issues

The quality and quantity of speaker cable is a real factor in determining a system's overall impedance. Cable presents the overall load with additional resistance. It is even possible for speaker cable to add inductance.

{**TIP** - *In certain rare cases you might find that coiling a speaker cable the right way can get rid of radio frequency interference. Occasionally, the speaker lines effectively pick up powerful radio signals. This interference then goes back into the amplifier's grounding, is amplified and comes out the speaker system. In a few instances, it has been reported that winding the cables into coils and taping them in place actually helped to reduce the problem.*}

Resistance, however, is the main additive and it varies in direct proportion to the gauge and length of the wire. The effect that it has on the system's impedance is easy to chart out; what we offer instead is the effect that cable has on the amplifier's delivered power. The reason we do this is that the percentage of power loss varies, not only according to the length and gauge of wire, but also according to the speaker impedance. As you will notice in the "**CABLE LOSS CHART**" the lower the speaker load, the higher the loss.

For obvious reasons, it makes sense to pay attention to what speaker cable you are using. In general, the less wire, the better. The heavier the gauge, the better. We suggest that you look over the "CABLE LOSS CHART" and spend some time studying it. Proper speaker cable selection could dramatically improve your system performance!!

| Wire Gauge (AWG) | length (ft.) | speaker load (Ohms) | power loss (% of watts) |
|---|---|---|---|
| 18 | 25 | 8Ω | 6.82 % |
| 16 | 25 | 8 | 4.35 |
| 14 | 25 | 8 | 2.75 |
| 12 | 25 | 8 | 1.67 |
| 18 | 50 | 8 | 12.94 |
| 16 | 50 | 8 | 8.41 |
| 14 | 50 | 8 | 5.39 |
| 12 | 50 | 8 | 3.29 |
| 18 | 100 | 8 | 23.44 |
| 16 | 100 | 8 | 15.76 |
| 14 | 100 | 8 | 10.34 |
| 12 | 100 | 8 | 6.41 |
| 18 | 25 | 4 | 12.94 |
| 16 | 25 | 4 | 8.41 |
| 14 | 25 | 4 | 5.39 |
| 12 | 25 | 4 | 3.9 |
| 18 | 50 | 4 | 23.44 |
| 16 | 50 | 4 | 15.76 |
| 14 | 50 | 4 | 10.34 |
| 12 | 50 | 4 | 6.41 |
| 18 | 100 | 4 | 39.33 |
| 16 | 100 | 4 | 27.94 |
| 14 | 100 | 4 | 19.10 |
| 12 | 100 | 4 | 12.21 |
| 18 | 25 | 2 | 23.44 |
| 16 | 25 | 2 | 15.76 |
| 14 | 25 | 2 | 10.34 |
| 12 | 25 | 2 | 6.41 |
| 18 | 50 | 2 | 39.33 |
| 16 | 50 | 2 | 27.98 |
| 14 | 50 | 2 | 19.10 |
| 12 | 50 | 2 | 12.21 |
| 18 | 100 | 2 | 58.95 |
| 16 | 100 | 2 | 45.43 |
| 14 | 100 | 2 | 33.08 |
| 12 | 100 | 2 | 22.24 |

# M810 / M1610

## Powered Wedge Mixers

The unique shape makes the Yorkville M1610 and M810 the most versatile high-powered compact mixers on the market. The convenience, lighter weight and small footprint of a box mixer combined with tilt-back visibility and control access of a desk mixer makes Yorkville wedge mixers an ideal high power, high quality powered mixer solution.

The M1610 and M810 offer 10 input channels, six with balanced XLR microphone and TRS balanced inputs, input trim control, three-band EQ, master volume and trim set light. The mono line inputs on channels 5 and 6 are designed for high impedance instrument level input, making them an ideal place to start when looking for that perfect live acoustic guitar or direct bass sound. When the input trim level is properly set, users will have ample overall gain while taking full advantage of the new clip elimination circuit that makes it virtually impossible to distort the input of the microphone and instrument channels.

In addition to the 6 mono microphone channels, the M810 and M1610 offer two discrete stereo input channels (channel 7 & 8, 9 & 10) each with three-band EQ and stereo TRS balanced inputs. Both stereo channels have an additional XLR balanced microphone input, making for a total of 8 potential microphone inputs, or 6 mono microphone inputs and two stereo line inputs.

The more cost effective 800-watt M810 has two integrated 400-watt power amplifiers. Either mixer's amplifier is attached to an innovative master EQ section designed specifically for these new mixers. The master EQ has a 9-band graphic EQ with additional high and low shelving EQ's at either end of the frequency band. The nine graphic sliders are essentially all of the middle bands of a 15-band graphic EQ with the low and high frequency bands covered by separate shelving controls. This gives the user more control over the feedback-prone mid frequency bands; with high and low tone-shaping frequencies controlled by additional simple +/- 15 dB trim controls.

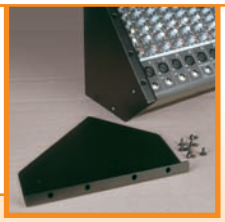
The 1600-watt M1610 has two integrated 800-watt power amplifiers that can be assigned to power stereo main mix, or a mono main and mono monitor mix.

*M810*

*M1610*

## Optional Rackmount Kit for M810 / M1610

The optional RK1610 allows simple and secure rack mounting of the M810 or M1610 wedge mixer. Simply remove the stock gables from the mixer, replace them with the RK1610 and the wedge mixer becomes a rack mount powerhouse.



# MM5D

## Five Channel Powered Box Mixer with Digital Effects

The MicroMix MM5D powered box mixer is the ideal PA solution for most applications where 2 x 90 watts (stereo) is enough power yet input flexibility is required. Balanced XLR mic, 1/4-inch phone and dual RCA line inputs, onboard user controlled digital effect unit and tape outs (with separate level controls) make the MM5D the perfect powered mixer for live PA, rehearsal, installation or announcement PA applications.

The rugged and reliable MM5D has flexible outputs, a scratch resistant front panel, durable carpet covering and corner protectors..

# MP6D2

## 325 watt / 6 Channel Powered Box Mixer

The extremely popular and highly cost effective Yorkville MicroMix MP6D2 six channel powered mixer gets a makeover with a solid new digital effects chip. Delivering 325 Watts into a 4-ohm load means that you get better than 160 watts into each 8-ohm speaker used in a typical small to midsized two cabinet PA setup.

- 325 watts into 4 ohms
- Upgraded 24-bit Internal Digital Effects Processor
- Six XLR Balanced Microphone Inputs
- Four 1/4-inch TRS Balanced Line Inputs
- Two Dual RCA Inputs (Channels 5 & 6) for CD/MP3 Sources
- Integrated 9-band Graphic EQ,
- Phantom Power
- Monitor Output w/ Effects
- Master Record Output
- External Effects Send Jack
- All Metal Chassis and Solid Plywood Carpet Covered Cabinet

**Improved Onboard Digital Effects!**

### *Micromix Powered Mixer Specifications:*

| *MODEL* | *M1610* | *M810* | *MM5D* | *MP6D-2* |
|---|---|---|---|---|
| POWER OUTPUT (Continuous): | 800W (x2) @ 4 ohms | 400W (x2) @ 4 or 2 ohms | 65W (x2) @ 8 ohms | 325W @ 4 ohms |
| | 600W (x2) @ 8 or 2 ohms | 250W (x2) @ 8 ohms | 90W (x2) @ 4 ohms | 208W @ 8 ohms |
| FREQ. RESPONSE, +/- 2dB (Tone Flat): | 20 Hz to 20 kHz | 20 Hz to 20 kHz | 20 Hz to 20 kHz | 20 Hz to 20 kHz |
| THD (Main out w/-10dB input): | < 0.03% | < 0.03% | < 0.4% | < 0.1% |
| HUM & NOISE: | -103dB | -103dB | -96dB | -96dB |
| MASTER EQ: | (2x) 9-band (2/3 octave) graphic EQ | (2x) 9-band (2/3 octave) graphic EQ | 7-band (stereo) | 9-band (2/3 octave) graphic EQ |
| | w/addn'l +/- 12dB high & low shelving EQ | w/addn'l +/- 12dB high & low shelving | - | - |
| INPUT CHANNELS: | 10 | 10 | 5 | 6 |
| XLR BALANCED MICROPHONE INPUTS: | 8 (Channels 1to 6, 7+8, 9+10) | 8 (Channels 1to 6, 7+8, 9+10) | 5 (Channels 1 to 5) | 6 (Channels 1 to 6) |
| TRS BALANCED LINE INPUTS: | 10 (1 thru 10) | 10 (1 thru 10) | 5 (1 to 5) | 4 (1 to 4) |
| STEREO INPUTS: | 3 stereo (7+8 / 9+10 / Aux Input) | 3 stereo (7+8 / 9+10 / Aux Input) | RCA (Tape In) | RCA (2 Pairs) |
| ACTIVITY LIGHTS: | all mono channels | all mono channels | - | |
| CLIP INDICATORS: | all channels & master output | all channels & master output | all channels & main Out | all channels |
| INPUT IMPEDENCE (Balanced) | 22 kOhms | 22 kOhms | 22 kOhms | 22 kOhms |
| (unbalanced) | 12 kOhms | 12 kOhms | 12 kOhms | 10 kOhms |
| INPUT SENSITIVITY: | 1.4 Vrms Sine | 1.4 Vrms Sine | - | 1.4 Vrms Sine |
| MAX. GAIN TO LINE OUT (Mic Input): | +63 dB | +63 dB | - | +55 dB |
| (Line Input): | +56 dB | +56 dB | - | +40 dB |
| TYPICAL CROSSTALK: | less than -60 dB | less than -60 dB | less than -65 dB | less than -60 dB |
| MAX VOLTAGE GAIN: | 32 dB | 32 dB | - | 27 dB |
| COMMON MODE REJECTION RATIO (Minimum) | 54 dB | 54 dB | 54 dB | 54 dB |
| (typical) | 66 dB | 66 dB | 66 dB | 66 dB |
| PHANTOM POWER: | yes | yes | yes | yes |
| CHANNEL EQ (All Channels) | 3-band +/-15dB shelving EQ | 3-band +/-15dB shelving EQ | Low, High | Low, High |
| INTERNAL EFFECTS: | 16-Bit; 255 Digital Effects | 16-Bit; 255 Digital Effects | 16-Bit; 16 Digital Effects | 24-Bit; 16 Digital Effects |
| RECORD OUT: | Stereo (RCA - L & R w/ level control) | Stereo (RCA - L & R w/ level control) | Stereo (RCA w/ level control) | Mono (Stereo Pair) |
| SPEAKER OUTPUTS: | 4 x 1/4" / 2 x Speakon | 4 x 1/4" / 2 x Speakon | 2 x 1/4" / 2 x Speakon | 2 x 1/4" |
| REVERB / EFFECT FOOTSWITCH: | yes - optional | yes - optional | no | yes - optional |
| POWER CONSUMPTION (typical) / (max): | 360 VA / 960 VA | 240 VA / 840 VA | 110 VA / 320 VA | 270 VA / 550 VA |
| DIMENSIONS (DxWxH inches): | 11 x 18 x 11 | 11 x 18 x 11 | 11.0 x 17.5 x 5.5 | 10 x 21 x 9.25 |
| DIMENSIONS (DxWxH cm): | 28 x 47 x 28 | 28 x 47 x 28 | 28.0 x 44.5 x 14.0 | 25.4 x 53.3 x 23.5 |
| WEIGHT (lbs / kg): | 29 / 13 | 27 / 12 | 19.0 / 8.6 | 27 / 12 |

*Specifications subject to change without notice.*

# AudioPro

## AP Series Power Amplifiers

AudioPro AP Series power amplifiers are designed for rock solid performance right down to and below their lowest impedance ratings. An ‘impedance aware’ design strategy deals with the realities of driving typical reactive speaker loads and they address the associated problems such as thermal shutdown, inductive 'snap-back', and premature current limiting. They will easily drive reactive phase shifted loads with no difficulty - even though they are still fully protected from accidental short circuits.

AudioPro amplifiers feature advanced protection schemes including DC current, load, thermal and breaker protection as well as a user-defeatable peak limiter that is transparent below clipping levels. A ‘soft turn-on’ circuit eliminates damage to attached components and prevents nuisance breaker-tripping. The computer-optimized (Silentfan™) front-to-back heat dissipation system incorporates ultra-quiet, variable-speed internal fans designed to ensure that excessive thermal stress will not occur. For ease of maintenance and to ensure efficient cooling, the amplifiers are supplied with long-life, faceplate-mounted, user serviceable, air intake filters. Front panel Power, Protect, Activity and Clip LED's are bright and easy to see and all knobs and handles are recessed for safe, easy transportation.

The back panel features Speakon™ and binding post outputs as well as balanced XLR & 1/4-inch TRS inputs. The peak limiter, subsonic filter, mono/stereo/bridge mode and ground lift switches are also mounted on the back panel. The unique Yorkville Impedance Mode switch (AP1020 & AP2020), also located on the back panel, allows the user to select full output power into two or four ohms for maximum application flexibility.

- **Proven Ultra Reliable Conventional Designs**
- **Easily Handles Reactive Phase Shifted Loads**
- **Advanced Protection Schemes Including DC Current, Load, Thermal & Breaker Protection**
- **Transparent User-Defeatable Peak Limiter Circuits**
- **Soft Turn-On Circuit Protects Speakers and Prevents Nuisance Breaker Tripping During Power Up**
- **Computer-Optimized Silentfan™ Front-to-Back Heat Dissipation System**
- **Long-Life, Faceplate-Mounted, User Serviceable, Air Intake Filters**
- **Front Panel Power, Protect, Activity and Clip Led's**
- **Speakon™ and Binding Post Outputs**
- **Balanced XLR and 1/4-inch TRS Inputs**
- **Impedance Mode Switch (AP1020 & AP2020)**
- **All-Steel Chassis Construction**

## AP1020

The AP1020 is a 400 watt per channel, impedance-selectable, professional quality amplifier providing outstanding reliability and performance in a rugged package. The AP1020 is unique in its class, allowing the user to select between two configurations to allow the amplifier to provide maximum possible output into either 4 ohms or 2 ohms, as the user requires for their particular application and speaker load.

## AP2020

The AP2020 weighs a comfortable but solid 34 pounds, fits into two rack spaces, and has the best distortion and noise specifications you will find anywhere. A simple user definable configuration allows it to deliver 600 continuous average watts per channel into either a 2 ohm or a 4 ohm load.

## AP4040 & AP4020

As the workhorses of the AudioPro AP Series amplifier line, the AP4040 / AP4020 deliver 1200 watts per channel (at 4 ohms in the AP4040, 2 ohms for the AP4020). Sonic quality is excellent while the proven design and quality components assure many years of trouble free performance.

## *Audiopro Amplifier Specifications:*

| Model | AP6040 | AP6020 | AP4040 | AP4020 | AP2020 (A/B)* | AP1020 (A/B)* |
|---|---|---|---|---|---|---|
| CONTINUOUS AVERAGE POWER (Both Channels Driven) | | | | | | |
| Watts @ 8 ohms | 1250 (x2) | 800 (x2) | 750 (x2)) | 475 (x2) | 250 (x2) / 400 (x2) | 160 (x2) / 250 (x2) |
| Watts @ 4 ohms | 2000 (x2) | 1300 (x2) | 1200 (x2) | 750 (x2) | 450 (x2) / 600 (x2) | 260 (x2) / 400 (x2) |
| Watts @ 2 ohms | NA | 2000 (x2) | NA | 1200 (x2) | 600 (x2) / NA | 400 (x2) / NA |
| Watts Bridged | NA | 4000 @ 4 ohms | 2400 @ 8 ohms | 2400 @ 4 ohms | 1200 @ 4/8 ohms | 800 @ 4/8 ohms |
| BURST AVERAGE POWER (BCD) | | | | | | |
| Watts @ 8 ohms) | 2000 (x2) | 1200 (x2) | 1200 (x2) | 625 (x2) | 350 (x2) / 450 (x2) | 200 (x2) / 320 (x2 |
| Watts @ 4 ohms | 3625 (x2) | 2175 (x2) | 2175 (x2) | 1200 (x2) | 650 (x2) / 800 (x2) | 360 (x2) / 560 (x2) |
| Watts @ 2 ohms | NA | 3625 (x2) | NA | 2175(x2) | 1325 (x2) / NA | 600 (x2) / NA |
| Watts Bridged | NA | 7200 @ 4 ohms | 4350 @ 8 ohms | 4350 @ 4 ohms | 2100@4 / 1600@8 | 1200@4 / 1100@8 |
| FREQ. RESPONSE (+/- 1dB) | 20Hz-20kHz | 20Hz-20kHz | 20Hz-20kHz | 20Hz-20kHz | 20Hz-20kHz | 20Hz-20kHz |
| HUM & NOISE | -103dB | -103dB | -103dB | -103dB | -103dB | -101dB |
| THD (1 kHz,4 ohms) | <0.01% | <0.01% | <0.01% | <0.01% | <0.01% | <0.01% |
| THD (20-20 kHz,4 ohms) | <0.1% | <0.1% | <0.1% | <0.1% | <0.1% | <0.1% |
| SLEW RATE (V/uS) | 50 | 25 (50 bridged) | 25 (50 bridged) | 25 (50 bridged) | 22 (44 bridged) | 20 (40 bridged) |
| DAMPING FACTOR | >600 | >600 | >600 | >600 | >450 | >300 |
| CROSSTALK (1 kHz/20-20 kHz) | -75/-60 dB | -75/-60 d | -75/-60 dB | -75/-60 dB | -75/-60 dB | -80/-75 dB |
| INPUT IMPEDANCE (Bal/UnBal) | 20 / 10 kOhms | 20 / 10 kOhms | 20 / 10 kOhms | 20 / 10 kOhms | 20 / 10 kOhms | 22 / 12 kOhms |
| INPUT SENSITIVITY (VRMS Sine) | 1.4 (41dB gain) | 1.4 (39dB gain) | 1.4 (39dB gain) | 1.4 (36dB gain) | 1.0 / 1.4 (31dB gain) | 1.0 / 1.4 (29dB gain) |
| CMRR @ 60Hz (Min/Typ) | 48 / 56dB | 48 / 56dB | 48 / 56dB | 48 / 56dB | 48 / 56dB | 54 / 66dB |
| STEREO / MONO / BRIDGE (S/M/B) | S/M | S/M/B | S/M/B | S/M/B | S/M/B | S/M/B |
| POWER CONSUMPTION (Typ/Max) | 1800 / 3000W | 1800 / 3000W | 1130 / 1800W | 1130 / 1800W | 700 / 1440W | 750 / 1440W |
| PROTECTION | DC, Load, Thermal | DC, Load, Thermal | DC, Load, Thermal | DC, Load, Thermal | DC, Load, Thermal | DC, Load, Thermal |
| LIMITER (User defeatable) | Peak | Peak | Peak | Peak | Peak | Peak |
| HIGH PASS FILTER | 40Hz, 12dB Octave | 40Hz, 12dB Octave | 40Hz, 12dB Octave | 40Hz, 12dB Octave | 40Hz, 12dB Octave | 40Hz, 12dB Octave |
| COOLING (Variable Speed DC Fan) | Dual Front > Rear | Dual Front > Rear | Front > Rear | Front > Rear | Front > Rear | Front > Rear |
| FACEPLATE-MOUNTED FILTER | User Serviceable (x2) | User Serviceable (x2) | User Serviceable | User Serviceable | User Serviceable | User Serviceable |
| INPUT CONNECTORS | XLR (x2)<br>1/4" Phone TRS (x2) | XLR (x2)<br>1/4" Phone TRS (x2) | XLR (x2)<br>1/4" Phone TRS (x2) | XLR (x2)<br>1/4" Phone TRS (x2) | XLR (x2)<br>1/4" Phone TRS (x2) | XLR (x2)<br>1/4" Phone TRS (x2) |
| OUTPUT CONNECTORS | Binding Post (x2)<br>Speakon™ SP-4 (x2) | Binding Post (x2)<br>Speakon™ SP-4 (x2) | Binding Post (x2)<br>Speakon™ SP-4 (x3) | Binding Post (x2)<br>Speakon™ SP-4(x3) | Binding Post (x2)<br>Speakon™ SP-4 (x3) | Binding Post (x2)<br>Speakon™ SP-4 (x3) |
| RACK SPACES | 3 | 3 | 2 | 2 | 2 | 2 |
| TRANSFORMER | Toroidal | Toroidal | Toroidal | Toroidal | Toroidal | Toroidal |
| EXTERIOR FINISH | Baked, Black Painted Steel | Baked, Black Painted Steel | Baked, Black Painted Steel | Baked, Black Painted Steel | Baked, Black Painted Steel | Baked, Black Painted Steel |
| DIMENSIONS (WDH/D from ears - inches) | 19 x 18.5 x 5.25/17.6 | 19 x 18.5 x 5.25/17.6 | 19 x 17.3 x 3.5/16.2 | 19 x 17.3 x 3.5/16.2 | 19 x 17.3 x 3.5/16.2 | 19 x 16.8 x 3.5/15.7 |
| DIMENSIONS (WDH/D from ears - cm) | 48.3 x 47.0 x 13.3/44.7 | 48.3 x 47.0 x 13.3/44.7 | 48.3 x 43.9 x 8.9/41 | 48.3 x 43.9 x 8.9/41 | 48.3 x 43.9 x 8.9/41 | 48.3 x 43.0 x 8.9/40 |
| WEIGHT (lbs / kg) | 67 / 31 | 67 / 31 | 43.5 / 19.8 | 40.5 / 18.4 | 35 / 15.9 | 31.5 / 14.3 |

*Configuration A - Maximum power into 2 ohms • Configuration B - Maximum power into 4 ohms • Specifications subject to change without notice.

*Specifications subject to change without notice.*

*AP6040 rear*

*AP4040 rear*

# AP6040 & AP6020

The AP6040 / AP6020 amplifiers are Yorkville's most powerful, featuring a massive toroidal transformer, rugged design and top quality components, ensuring many years of reliable service. Nearly identical in appearance, the AudioPro AP6040 and AP6020 amplifiers each deliver 2000 watts per channel into 4 ohms and 2 ohms, respectively. They have top-of-the-line specifications, ample headroom and are extremely low noise, making them ideally suited for a wide variety of high-power applications.

# Coliseum Series

Yorkville Sound applies the knowledge and experience gained in over forty-five years of professional loudspeaker design to the creation of a full range of speaker cabinets for commercial installation applications. A combination of custom designed woofers and compression drivers mounted on Yorkville's exclusively molded horn designs, the use of simplified yet effective crossover networks has delivered the Coliseum Series Installation Loudspeaker Line, an excellent compromise between performance and price.

## CU15 Unity™ Technology Installation Loudspeaker

Ultra clear reproduction through the high-mid band with extremely linear frequency response is achieved using the patented Unity™ horn technology. The unparalleled clarity and precision of the patented Unity™ Summation Aperture conical horn when combined with the single 15-inch Neodymium woofer deliver intelligibility and performance unmatched by any competitive loudspeaker in this class.

The CU15 has been further reinforced for installation and has seventeen integrated flypoints on the enclosure, making it extremely easy to install on any angle, hung as a single cabinet or in any array.

- 800 Watt 3-Way Full Range Loudspeaker
- 15-inch Neodymium Woofer
- Patented 60º x 60º Conical Unity™ Horn
- 3 x 5-inch Midrange Drivers
- 1-inch Diaphragm Compression Driver
- Innovative PTC™ High Frequency Driver Protection
- 2 x Speakon™ and 2 x 1/4-inch Parallel Inputs
- Solid 5/8-inch (15mm) Birch Plywood Construction
- Integrated 3/8-inch flypoints
- Optional FH1W or FH1B Flyware kits available

## C2285

- 300 Watts / 8 ohms
- 12-inch Woofer / 1-inch Horn Driver
- 80º x 50º Rotatable Waveguide Horn
- Proven CTL™ High Frequency Driver Protection
- Integrated 3/8-inch flypoints
- Solid 5/8-inch (15mm) Plywood Cabinet Construction
- All Metal Grille
- 1/4-inch & Binding Post Inputs

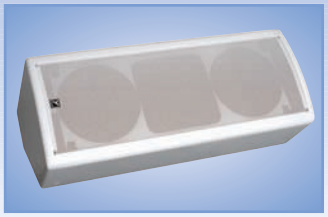
## C2560

- 300 Watts / 8 ohms
- 15-inch Woofer / 2-inch Titanium Horn Driver
- 60º x 40º Waveguide Horn
- Proven CTL™ High Frequency Driver Protection
- Integrated 3/8-inch flypoints
- Solid 5/8-inch (15mm) Plywood Cabinet Construction
- All Metal Grille
- 1/4-inch & Binding Post Inputs

# C2890

The C2890 can be flown vertically or horizontally with the rotatable 90°x 30° horn allowing high frequency dispersion can be tailored to suit placement. The unique cabinet shape makes for tighter arrays and the ability to fly the cabinet much closer to walls and ceilings than conventional designs.

- 200 Watts / 8 ohms
- 2 x 8-inch Woofer / 1-inch Horn Driver
- 90º x 30º Rotatable Waveguide Horn•
- Proven CTL™ High Frequency Driver Protection
- Integrated 3/8-inch flypoints
- Optional C2890BRKT Metal U-bracket Available
- Solid 5/8-inch (15mm) plywood Cabinet Construction
- All Metal Grille
- 1/4-inch & Binding Post  Inputs



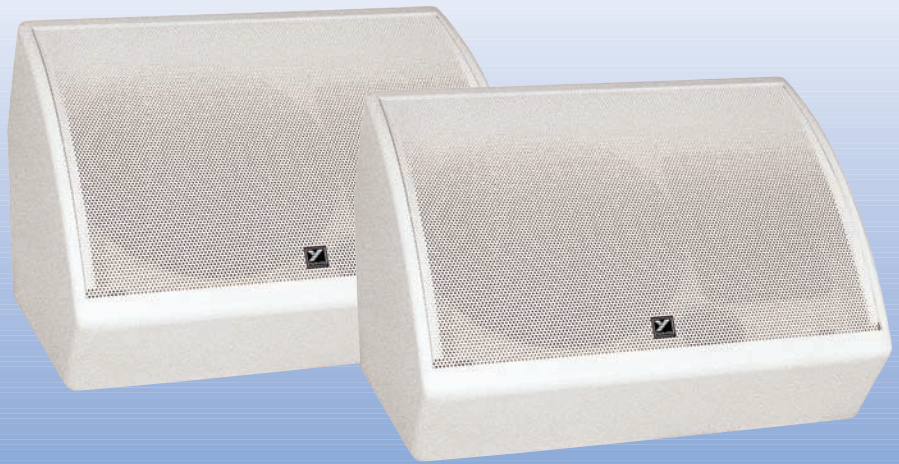
# C1890

The 150 watt Coliseum C1890 installation loudspeaker is the ideal cabinet for a variety of commercial audio applications. The 90º x 30º rotatable 1-inch horn allows the cabinet to be oriented vertically or horizontally.

Nine flypoints ensure easy rigging. The C1890 has both binding strip and 1/4-inch jack inputs.

***All-metal U-Bracket is included.***

- 150 Watts / 8 ohms
- 8-inch Woofer / 1-inch Horn Driver
- 90º x 30º Rotatable Horn
- Proven CTL™ High Frequency Driver Protection
- Nine Integrated 1/4-20 flypoints
- All Metal U bracket Included
- 3/4-inch MDF Cabinet Construction
- All Metal Grille / Integrated Standmount Adaptor
- 1/4-inch & Binding Post  Inputs
- Available in White (**C1890W**) or Black (**C1890B**) finishes



# CM1260

- 150 Watts / 8 ohms
- Ultra Compact Low Profile Monitor Design
- 12-inch Woofer / 1-inch Horn Driver
- 40º x 60º Custom Waveguide Horn
- Proven CTL™ High Frequency Driver Protection
- Solid 5/8-inch (15mm) Plywood Cabinet Construction
- All Metal Grille
- 1/4-inch & Binding Post  Inputs

## Coliseum Series Specifications:

| Model | C190 | C1890 | C2890 | C2560 | C2285 | CM1260 |
|---|---|---|---|---|---|---|
| SYSTEM TYPE | Passive 2-Way | Passive 2-Way | Passive 2-Way | Passive 2-Way | Passive 2-Way | Passive 2-Way Monitor |
| PROGRAM POWER (watts) | 150 | 150 | 200 | 300 | 300 | 150 |
| IMPEDANCE (ohms) | 8 | 8 | 8 | 8 | 8 | 8 |
| FREQ. RESPONSE (Hz +/-3dB) | 70 - 20k | 70 - 20k | 65 - 16k | 60 - 16k | 55 - 16k | 80 - 16k |
| SENSITIVITY (dB@1W/1m) | 91 | 92 | 97 | 100 | 99 | 100 |
| MAXIMUM SPL (dB) | 113 | 113 | 120 | 125 | 124 | 121 |
| X-OVER FREQUENCY (Hz) | 1800 | 3000 | 2500 | 1200 | 2500 | 4000 |
| LF DRIVER(S) | 8" | 8" | 2 x 8" | 15" | 12" | 12" |
| HF HORN | Injection Molded | Injection Molded | Rotatable Waveguide | Waveguide | Rotatable Waveguide | Waveguide |
| HF DRIVER | 1.375" Titanium | 1.4" Titanium | 1" Mylar | 2" Titanium | 1" Mylar | 1" Mylar |
| HF HORN THROAT DIAMETER | 1" | 1" | 1" | 1" | 1" | 1" |
| HF DISPERSION (H˚ x V˚) | 90 x 30 | 90 x 30 / 30 x 90 | 90 x 30 / 30 x 90 | 60 x 40 | 80 x 50 / 50 x 80 | 40 x 60 |
| HF PROTECTION | PTC | Dual Bulb | CTL™ | CTL™ | CTL™ | CTL™ |
| CONSTRUCTION | 3/4" MDF | 3/4" MDF | 15mm 11-ply Birch | 15mm 11-ply Birch | 15mm 11-ply Birch | 15mm 11-ply Birch |
| STOCK FINISH | White Painted | White Painted | White Painted | White Painted | White Painted | White Painted |
| GRILLE | Perforated Metal | Perforated Metal | Perforated Metal | Perforated Metal | Perforated Metal | Perforated Metal |
| INPUTS (1/4" / Binding Post) | 2 / 1 pair | 2 / 1 pair | 2 / 1 pair | 2 / 1 pair | 2 / 1 pair | 2 / 1 pair |
| FLYWARE TYPE / QUANTITY | 3/4" x 5 | 1/4-20 x 10 | 3/8" x 9 | 3/8" x 9 | 3/8" x 9 | - |
| FLYWARE LOCATIONS | 2 Tops / 2 Bottom / 1 Back | 2 Tops / 2 Bottom / 1 Back | All Corners / 1 Pull Back | All Corners / 1 Pull Back | All Corners / 1 Pull Back | - |
| OPTIONAL ACCESSORIES | - | C1890BBKT / C1890WBKT | C2890BRKT | - | - | - |
| DIMENSIONS (DxWxHxBW inches) | 12.5 x 9.75 x 17.5 x 8 | 14.75 x 12 x 20 | 15 x 12 x 29 x 6 | 20 x 21 x 27 x 12 | 14 x 17 x 24 x 11 | 15 x 21 x 18 |
| DIMENSIONS (DxWxHxBW cm) | 31.75 x 24.75 x 44.5 x 20.25 | 37.5 x 30.5 x 51 | 36 x 29 x 73 x 15 | 52 x 54 x 68 x 32 | 36 x 43 x 61 x 28 | 38 x 55 x 46 |
| WEIGHT (lbs / kg) | 25 / 11.5 | 32 / 14.5 | 42 / 19.1 | 71 / 31.8 | 44 / 20 | 37 / 17 |

*Specifications subject to change without notice.*

## Coliseum Series Specifications:

| Model | CU15 |
|---|---|
| SYSTEM TYPE | Passive 3-Way |
| BIAMPABLE | YES |
| PROGRAM POWER (watts) | 800 |
| PROGRAM BI-AMP POWER (watts) | 800 LF / 200 HF |
| IMPEDANCE (ohms) | 4 |
| FREQ. RESPONSE (Hz +/- 3dB) | 50 - 20000 |
| SENSITIVITY (dB@1W/1m) | 98 |
| MAXIMUM SPL (dB) | 127 |
| X-OVER FREQUENCY (Hz) | 300 / 1250 |
| DRIVER CONFIGURATION | 15" / 3 x 5" / 1 x 1.75" |
| LF DRIVER(S) | 15" Neodymium / 3" Voicecoil |
| MF DRIVER(S) | 3 X 5" / 1" voice coil |
| HF DRIVER(S) | 1.75" polyester |
| HIGH / MID HORN CONFIGURATION | Conical Unity™ Horn |
| HIGH / MID HORN DISPERSION (H° x V°) | 60 x 60 Waveguide |
| HF HORN THROAT DIAMETER | 1" |
| HF PROTECTION | PTC™ |
| CONSTRUCTION | 15mm 11-ply Birch |
| GRILLE | Perforated Metal |
| STOCK FINISH | White painted |
| INPUTS (1/4" / Speakon™) | 2 / 2 |
| FLYWARE TYPE / QUANTITY | 3/8" / 17 |
| FLYWARE LOCATIONS | All corners / sides and pullback |
| OPTIONAL ACCESSORIES | Unity™ UP15 Processor |
| DIMENSIONS (DxWxHxBW inches) | 16.25 x 19.25 x 34 x 9.5 |
| DIMENSIONS (DxWxHxBW cm) | 42 x 49 x 87 x 24 |
| WEIGHT (lbs / kg) | 80 / 36 |

*Specifications subject to change without notice.*

## Coliseum Mini-Series Specifications:

| Model | C170 / C170W | C170P | C120P |
|---|---|---|---|
| SYSTEM TYPE | 2-Way | 2-Way | 2-Way |
| ACTIVE OR PASSIVE | Passive | Active | Active |
| IMPEDANCE | 8 | N/A (Active) | N/A (Active) |
| SENSITIVITY (dB @ 1W / 1M) | 93 | N/A (Active) | N/A (Active) |
| PROGRAM POWER (watts) | 100 | 100 | 125 |
| MAXIMUM SPL (dB) | 113 | 113 | 113 |
| FREQ. RESPONSE (Hz +/- 3dB) | 60 - 20000 | 60 - 20000 | 65 - 19000 |
| DRIVER CONFIGURATION | 8" / 1" dome tweeter | 8" / 1" dome tweeter | 5 inch / 1" dome tweeter |
| HF DRIVER(S) | 1" Mylar Dome Tweeter | 1" Mylar Dome Tweeter | Aimable 1" Mylar Dome Tweeter |
| LF DRIVER(S) | 8" | 8" | 5 inch |
| TOTAL POWER (watts) | 100 | 100 | 125 |
| COOLING SCHEME | - | Heat Sink | Heat Sink |
| POWER CABLE | - | Built-in | Built-in |
| POWER SWITCH | - | Yes | Yes |
| INPUTS | 2 x 1/4" TRS (Input/Aux Out) | 2 x 1/4" TRS (Input/Aux Out) | 1 x 1/4" TRS / 1 x 1/8" TRS |
| INPUTS - 1/4" Jacks | 1 x TRS | 1 x TRS | 1 x TRS |
| MIXER CONTROLS | - | Mic/Line sensitivity switch Gain, Tone, Volume controls | Level, Treble, Bass, Mono / Stereo Select |
| OTHER CONTROLS / FEATURES | - | Switchable AC voltage 115/230 | Switchable AC voltage 115/230 |
| FEET | Yes | Yes | - |
| INCLUDED HARDWARE | Mounting Bracket | Mounting Bracket | Mounting Bracket |
| OPTIONAL HARDWARE | Pole Mount Adaptor (1 3/8"-3.5cm) (C170ADAPT) | Pole Mount Adaptor (1 3/8"-3.5cm) (C170ADAPT) | - |
| ENCLOSURE MATERIALS | ABS Plastic | ABS Plastic | ABS Plastic |
| OPTIONAL FINISH | White (C170W) | - | - |
| GRILLE | Perforated Metal | Perforated Metal | Perforated Metal |
| DIMENSIONS (DxWxH inches) | 11 x 9 x 16 | 11 x 9 x 16 | 6.5 x 6.75 x 10.25 |
| DIMENSIONS (DxWxH cm) | 28 x 23 x 41 | 28 x 23 x 41 | 16.5 x 17.2 x 26 |
| WEIGHT (lbs/kg) | 14.5 / 6.6 | 18.7 / 8.5 | 8.5 / 3.9 |

**Specifications subject to change without notice.**

# C190 / C190W

The ultra-compact and ultra-versatile 150-watt C190 and C190W are the ideal loudspeaker solutions for small commercial installs, for larger installations requiring delayed repeater cabinets or for multi-zone rooms where a number of unobtrusive loudspeakers are needed to complete the system.

- 150 Watts / 8 ohms
- Ultra Compact Cabinet Design
- 8-inch Woofer / 1.4-inch Titanium Horn Driver
- 90º x 30º HF Horn
- Self Resetting PTC™ High Frequency Driver Protection
- Nine Integrated 3/8-inch flypoints
- All Metal U bracket Included
- 3/4-inch MDF Cabinet Construction
- All Metal Grille / Integrated Standmount Adaptor
- 1/4-inch & Binding Post Inputs
- Available in White (**C190W**) or Black (**C190**) finishes

## C170 / C170W

- High Performance Two-Way Installation Loudspeaker
- 8-inch Woofer / 1-inch Mylar Dome Tweeter
- 70-volt as well as 8-ohm Operation
- Power Taps at 6, 12.5 and 25 Watts
- 100 watts (8-ohm mode)
- 1/4-inch and Binding Post Inputs
- Heavy Duty ABS Plastic Cabinet and Metal Grille
- Mounting U-Bracket Included
- Available in White (**C170W**) or Black (**C170**) Finishes
- Optional Stand-Mount Adaptor (**C170ADAPT**) Available

## C170P

- High Performance Active Two-Way Loudspeaker
- 8-inch Woofer / 1-inch Mylar Dome Tweeter
- 100 Watt Integrated Amplifier
- 1/4-inch TRS Balanced Inputs
- Accepts Microphone or Line Level Inputs
- Gain, Volume and Tone Controls
- Heavy Duty ABS Plastic Cabinet and Metal Grille
- Mounting U-Bracket Included
- Optional Stand-Mount Adaptor (**C170ADAPT**) Available

## C130 / C130W

- 100 watt / 8-ohm Two-Way Installation Loudspeaker
- 6.5-inch Woofer / 1-inch Mylar Dome Tweeter
- 1/4-inch and Binding Post Inputs
- Weather Resistant Plastic Cabinet
- Metal Grille
- Mounting U-Bracket Included
- Available in White (**C130W**) or Black (**C130**) Finishes

## C130/70 / C130W/70

- Two-Way Installation Loudspeaker (70-volt)
- 6.5-inch Woofer / 1-inch Mylar Dome Tweeter
- Selectable 70-volt or 8-ohm Operation
- Power Taps at 6, 12.5 and 25 Watts
- 100 watts (8-ohm mode)
- 1/4-inch and Binding Post Inputs
- Weather Resistant Plastic Cabinet
- Metal Grille
- Mounting U-Bracket Included
- Available in White (**C130W/70**) or Black (**C130/70**) Finishes

**C130 U-brackets (included)**

The C130 is available either in an 8-ohm version, or as a 70-volt multi tapped transformer version designed for fixed installation systems 130/70). The integrated 70-volt 'matching transformer' allows multiple C130/70's to be connected together without danger of overloading the power amplifier due to impedance drop. The user has a choice of three sensitivity settings (6w, 12.5w, 25w or bypass).

***Black (C130) or white (C130W) versions are available.***

The Coliseum C120 is a high-end, water resistant speaker featuring specially treated drivers and a sculpted plastic enclosure. This compact speaker is ideally suited for many applications: commercial installations, home theatre, home stereo, mobile applications, reference monitor, personal stage monitor and can even be used outdoors.

Also available is the C120/70. The integrated 70-volt 'matching transformer' allows multiple C120s to be connected together without danger of overloading the power amplifier due to impedance drop. The user has a choice of three sensitivity settings (6w, 12.5w, 25w or bypass) selected via a rotary switch located on the rear panel of the speaker, allowing convenient adjustment of the relative volumes of multiple interconnected cabinets.

## C120 / C120W

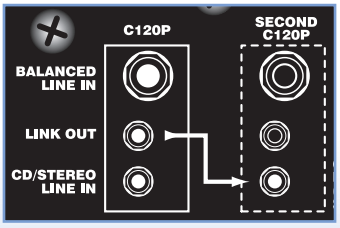
- 100 watt / 8-ohm Bass Reflex Two-Way Installation Loudspeaker
- 5-inch Woofer / Aimable Swivel 1-inch Mylar Tweeter
- 1/4-inch and Push Terminal Inputs
- ABS Plastic Cabinet and Metal Grille
- Mounting U-Bracket Included
- Optional Swivel Mount (**C120MOUNT**) Available
- Available in White (**C120W**) or Black (**C120**) Finishes

## C120/70 / C120W/70

- Bass Reflex Two-Way Installation Loudspeaker (70-volt)
- 5-inch Woofer / Aimable Swivel 1-inch Mylar Tweeter
- Selectable 70-volt or 8-ohm Operation
- Power Taps at 6, 12.5 and 25 Watts
- 100 watts (8-ohm mode)
- 1/4-inch and Push Terminal Inputs
- Injection Molded ABS Plastic Cabinet and Metal Grille
- Mounting U-Bracket Included
- Optional Swivel Mount (**C120MOUNT**) Available
- Available in White (**C120W/70**) or Black (**C120/70**) Finishes

## C120P

- Compact Two-Way Active Loudspeaker
- 5-inch Woofer / Aimable Swivel 1-inch Mylar Tweeter
- 80 Watt Integrated Amplifier
- 1/4-inch and 1/8-inch Stereo Inputs
- Additional 1/8-inch TRS output for Stereo Link with another C120P
- Level, Treble & Bass Controls
- Injection Molded ABS Plastic Cabinet and Metal Grille
- Mounting U-Bracket Included




## C110 / C110W

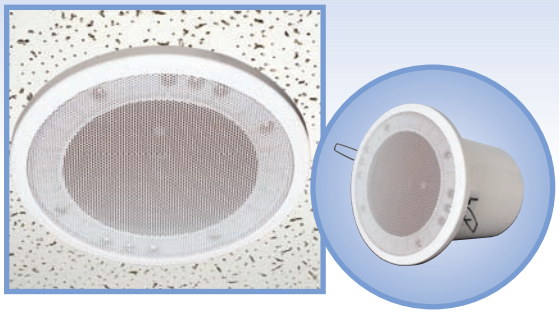
The Coliseum C110 is a high quality, weather resistant speaker which features specially treated drivers in a rugged plastic enclosure. It is well-suited for many applications including commercial installations, home theaters, home stereos, reference monitors and personal stage monitors.

- Two-Way Compact 70-volt Installation Loudspeaker
- 5-inch Woofer / 1-inch Mylar Dome Tweeter
- Selectable 70-volt or 8-ohm Operation
- Power Taps at 10, 20 and 30 Watts
- 40 watts (8-ohm mode)
- Screw Terminal Input
- ABS Plastic Cabinet and Metal Grille
- Mounting L-Bracket Included
- Available in White (**C110W**) or Black (**C110**) Finishes

## WM5T/70

The compact Coliseum WM5T/70 in-wall, flush mount loudspeaker speaker is ideally suited for commercial installations, home theatre or home stereo. Using the space between wall studs as an enclosure, this bass reflex speaker has a 5-inch woofer and Mylar dome tweeter that provides impressive bass, and clean, crisp high frequency response.

- High Performance Two-Way In-wall Speaker
- 5-inch Woofer / 1-inch Mylar Dome Tweeter
- Selectable 70-volt or 8-ohm Operation
- Power Taps at 5, 10 and 20 Watts
- 50 watts (8-ohm mode)
- Open Back Design
- Mounting Hardware Included
- Paintable Metal Grille and ABS Plastic Baffle

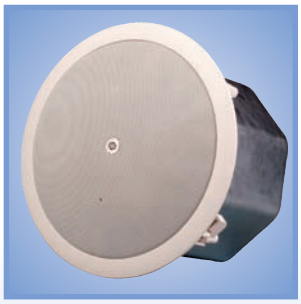


## C160W

- 4-inch Flush Mount 'Pot Light' Ceiling Speaker
- 70-volt Operation
- Power Taps at 2.5, 5 and 10 Watts
- Closed Back Design
- Mounting Hardware Included

## CM5/70

- 5-inch High Performance Flush Mount Ceiling Speaker
- Selectable 70-volt or 8-ohm Operation
- Power Taps at 5, 10 and 20 Watts
- 25 watts (8-ohm mode)
- Open Back Design
- Mounting Hardware Included



## C165W

Ideal for any background music or paging system where superior sound quality is a priority, the C165W 60-watt 6.5-inch high performance ceiling mount loudspeaker is made for louder club or restaurant / retail environments. The C165W contains a coaxial 6.5-inch woofer and 3/4-inch titanium coated tweeter. Built in 70-volt taps at 7.5, 15, 30 or 60-watt operation means that high fidelity full range sound can be achieved over an extremely wide coverage pattern area.

- 6.5-inch Flush Mount Ceiling Speaker
- Coaxial 6.5-inch woofer and 3/4-inch titanium coated tweeter
- Selectable 70-volt or 8-ohm Operation
- 70-volt Taps at 7.5, 15 and 30 watts
- 100-volt Taps at 15, 30 or 60-watts
- 60 watts (8-ohm mode)
- Closed Back Design
- Mounting Hardware Included

## C180

The Coliseum C180 is the ideal outdoor P.A. horn for 70-volt installations. Perfect for announcement systems, paging systems, arenas, sports fields or anywhere a weatherproof audio source is required. Designed for maximum intelligibility, the C180 has power taps from 1 watt to 30 watts, and comes with a secure integrated mounting bracket.

## Coliseum Mini-Series Specifications:

| Model | C130/70 | C130 | C120/70 | C120 | C110 |
|---|---|---|---|---|---|
| TYPE | 2-Way, Tuned Port | 2-Way, Tuned Port | 2-Way, Tuned Port | 2-Way, Tuned Port | 2-Way, Tuned Port |
| SYSTEM | Bass Reflex | Bass Reflex | Bass Reflex | Bass Reflex | Bass Reflex |
| PROGRAM POWER (watts) | 100 | 100 | 100 | 100 | 40 |
| IMPEDANCE (ohms) | 70V Transformer | Passive 8Ω | 70V Transformer / Passive 8Ω | Passive 8Ω | 70V Transformer / Passive 8Ω |
| SENSITIVITY (dB @ 1W/1m) | 92 | 92 | 94 | 94 | 92 |
| FREQ. RESP. (+/-3dB) | 85 - 19k | 85 - 19k | 75 - 19k | 75 - 19k | 85 - 19k |
| WOOFER | 5" | 5" | 5" | 5" | 5" |
| TWEETER | Mylar (aimable) | Mylar (aimable) | Mylar (aimable) | Mylar (aimable) | Mylar |
| INPUTS | 2 x 1/4" Phone / Push Terminal | 2 x 1/4" Phone / Push Terminal | 2 x 1/4" Phone / Push Terminal | 2 x 1/4" Phone / Push Terminal | Screw Terminals |
| CABINET CONSTRUCTION | Injection Molded ABS Plastic | Injection Molded ABS Plastic | Injection Molded ABS Plastic | Injection Molded ABS Plastic | Injection Molded ABS Plastic |
| STANDARD COLOR | Black | Black | Black | Black | Black |
| OPTIONAL COLOR | White (C130W/70) | White (C130W) | White (C120W/70) | White (C120W) | White (C110W) |
| STANDARD HARDWARE | Rear Key Hole Mounts (2) / U-Bracket | Rear Key Hole Mounts (2) / U-Bracket | Rear Key Hole Mounts (2) / U-Bracket | Rear Key Hole Mounts (2) / U-Bracket | Rear Key Hole Mounts (4) / L-Bracket |
| OPTIONAL HARDWARE | Swivel Wall Mount Assembly (C120MOUNT) | Swivel Wall Mount Assembly (C120MOUNT) | Swivel Wall Mount Assembly (C120MOUNT) | Swivel Wall Mount Assembly (C120MOUNT) | - |
| 70V TRANSFORMER TAPS | 6W / 12.5W / 25W | - | 6W / 12.5W / 25W / 8R | - | 10W / 20W / 30W / 8R |
| DIMENSIONS (DxWxH inches) | 7.5 x 8.5 x 11.5 x 3.5 | 7.5 x 8.5 x 11.5 x 3.5 | 6.5 x 6.75 x 10.25 | 6.5 x 6.75 x 10.25 | 5.5 x 6.26 x 8.9 |
| DIMENSIONS (DxWxH cm) | 19 x 22 x 29 x 9 | 19 x 22 x 29 x 9 | 16.5 x 17.2 x 26 | 16.5 x 17.2 x 26 | 14 x 15.9 x 22.6 |
| WEIGHT (lbs / kg) | 8.2 / 4 | 6.6 / 3.2 | 6.3 / 2.9 | 4.7 / 2.1 | 3.8 / 1.7 |

Specifications subject to change without notice.

## Coliseum Mini-Series Specifications:

| Model | CM5/70 | C160W | C165W | WM5T/70 |
|---|---|---|---|---|
| TYPE | Ceiling Speaker | Ceiling Speaker | Ceiling Speaker | 2-Way, In-Wall Mount |
| SYSTEM | Full Range Tile Mount | Full Range 'Pot Light' | Full Range 'Pot Light' | Bass Reflex |
| PROGRAM POWER (watts) | 30 | 10 | 60 | 50 |
| IMPEDANCE (ohms) | 70V Transformer / Passive 8Ω | 70V Transformer / Passive 8Ω | 70V Transformer / Passive 8Ω | 70V Transformer / Passive 8Ω |
| SENSITIVITY (dB @ 1W/1m) | 91 | 92 | 92 | 92 |
| FREQ. RESP. (+/-3dB) | 150 - 20k | 100 - 16k | 100 - 20k | 80 - 18k |
| WOOFER | 6" | 4" | 6" | 5" |
| TWEETER | - | - | 3/4" | Mylar |
| INPUTS | Wire Harness | Solder Lug | Screw Terminal | Solder Lug |
| CABINET CONSTRUCTION | Injection Molded ABS Plastic | Injection Molded ABS Plastic | Aluminum / ABS Plastic | Injection Molded ABS Plastic |
| STANDARD COLOR | White | White | White | White |
| OPTIONAL COLOR | - | - | - | - |
| STANDARD HARDWARE | - | Ceiling Mount Clips | Ceiling Mount Clips | Mounting Screws / Mounting Bracket / Cutting Template / Putty Sealer Strip |
| OPTIONAL HARDWARE | - | - | - | - |
| 70V TRANSFORMER TAPS | 5W / 10W / 20W | 2.5W / 5W / 10W | 2.5W / 5W / 10W | 5W / 10W / 20W |
| DIMENSIONS (DxWxH inches) | 8 (Diameter) x 3 (Depth) | 5.6 (Diameter) x 4.8 (Depth) | 10 (Diameter) x 7 (Depth) | 3.5 x 7.5 x 11 |
| DIMENSIONS (DxWxH cm) | 20 (Diameter) x 7.6 (Depth) | 14.2 (Diameter) x 12 (Depth) | 25 (Diameter) x 18 (Depth) | 9 x 29 x 28 |
| WEIGHT (lbs / kg) | 3.0 / 1.4 | 3 / 1.4 | 7.3 / 3.3 | 3 / 1.4 |

Specifications subject to change without notice.

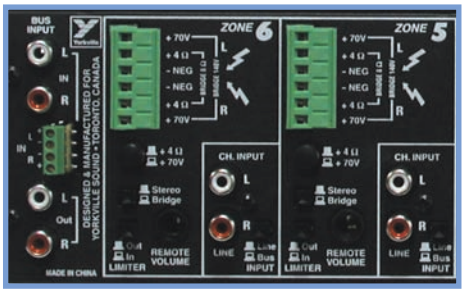
# CA1 / CA1T

Coliseum CA1 and CA1T public address amplifiers have been designed specifically for installations where a versatile paging system with high quality music playback is required. Multiple inputs for microphone or source material, and voice activated paging from either a microphone or telephone matrix means the CA1 or CA1T can be used in virtually any application.

XLR / TRS balanced combi-jack inputs and attenuated RCA unbalanced inputs ensure the CA1 and CA1T system can interface with any source (CD, Cassette, Satellite Tuner, DVD or video system) your installation may require. The onboard AM / FM tuner in the CA1T offers a simple, cost effective background music source.

Capable of driving a 4-ohm speaker load, or four separate 70-volt speaker systems (one 'system' per zone), the CA1 system delivers 120 watts (mono). A pre-amp output is available to feed an auxiliary power amplifier or active subwoofer to enhance the system, or to feed video or audio recording equipment.

# CA12
## Multi-channel Installation Amplifier



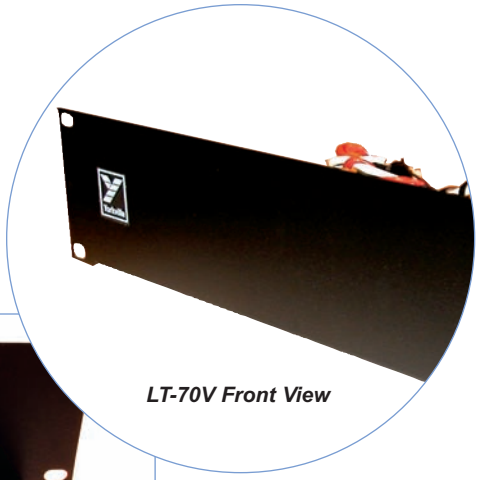

The Coliseum CA12 multi-channel amplifier is the ideal solution for powering any complex multi-zone, multi-speaker installation. Designed with versatility in mind, the CA12 can be configured as 12 single channel 50-watt amplifiers, each capable of driving 4 or 8-ohm loads or 70-volt speakers. The 12 mono channels can be configured in six stereo pairs for easy hook up to stereo source mixers. Stereo channels can be bridged mono, effectively turning the CA12 into six 100-watt (at 8 ohms) amplifiers. RCA and Terminal Block inputs as well as terminal block outputs ensure quick, safe and secure installation.

Every channel on the CA12 has its own individual volume control as well as clip and activity lights. Voltage Control Inputs allow remote volume control of individual channels.

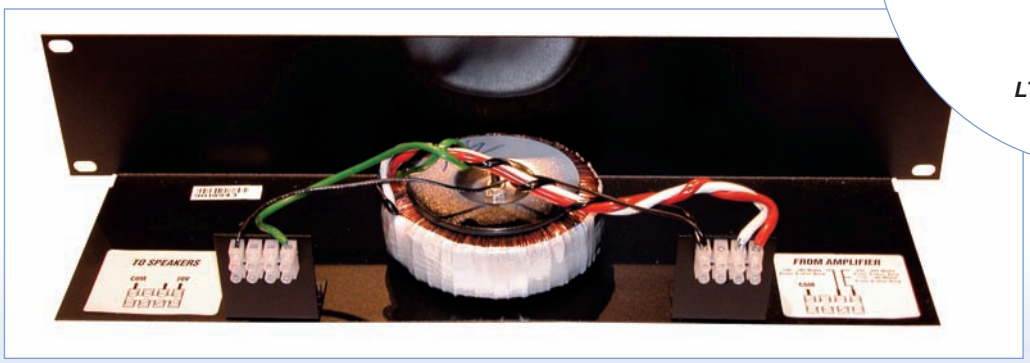
- 12 Channel (6 stereo zone) Installation Amplifier
- 50-watts per channel (bridgeable to 100-watts per zone)
- 70-volt or 4 and 8-ohm per channel selectable output configuration
- RCA & terminal block inputs, terminal block outputs
- Individual volume control, clip & activity LED's per channel
- Defeatable limiters & remote channel volume voltage control inputs

# LT-70V
## 70-volt Amplifier Transformer

The LT-70V is a rackmounted transformer that allows any standard power amplifier or powered mixer to drive any installed 70-volt paging or background music system.



*LT-70V Front View*




*LT-70V Rear View*

# CV1
## 70-volt In-wall Speaker Volume Control

The Coliseum CV1 in-wall speaker volume control is the ideal simple, user friendly solution installations requiring remote regulation of individual room level in complex 70-volt systems. The CV1 is wired for simple inline tapping of any 70-volt signal up to 35 watts per channel, and fits into a standard single gang light switch box. A dual transformer design allows the CV1 to handle stereo signal for background music and paging systems with nine volume level positions on the simple rotary control, including a full off position for silencing a room remotely.

# Lighting Systems

Yorkville lighting systems are easy to operate, compact, sophisticated and will often outperform larger, more expensive rigs. The basic system consists of a pair of LP-304 or LP-302 light bars with built-in dimmers and an LP-608 foot controller. Simply put the bars on stands and plug them into standard wall receptacles. Link the bars to the LP-608 foot controller using standard XLR microphone cables and you have up to eight channels of lights – enough to illuminate a small stage or club easily.

## LP-608 Foot Controller

This compact and versatile lighting controller does not require AC and permits manual, footswitch or MIDI operation. Microprocessor controlled functions include: eight channels, six preset scenes, six effects (including chase, random flash and colour organ), audio trigger and MIDI operation. Scene memory is automatically stored as adjustments are made and remains in memory even after the system is powered down. The rugged footswitches are touch-sensitive in manual mode and feature sturdy construction to provide many years of reliable service.

## LP-302 Dimmer Bar

The Yorkville LP-302 lighting bar consists of two 300-watt Par 56 cans (spots) on a short, lightweight standmount bar. The integrated dimmer pack in the LP-302 can be connected to Yorkville's LP-608 light controller via standard XLR balanced microphone cables, or can be turned on and off via a single optional one button footswitch like our AFS-1. Link outputs for both the XLR and 1/4-inch footswitch jacks allow multiple LP-302's to be daisy-chained together for more complex lighting scenes, or used in systems with Yorkville's LP-304 four-can light bars.

## LP-304 Dimmer Bar

Each bar consists of four 300-watt Par 56 cans (spots), swivel mounted on a steel frame which houses a four channel dimmer pack and comes supplied with four colored gels. Standard XLR balanced microphone cables are used as control cables and an optional MIDI to XLR interface box is available to allow the LP-304 to be used with standard MIDI devices. For maximum flexibility the dimmer bars may be used in parallel by daisy chaining the control cables. SKS-21B lighting stands are sold separately.

**Specifications:**

| DIMMER | LP-304 | LP-302 |
|---|---|---|
| POWER CONSUMPTION: | 1200 W (4 x 300W bulbs) | 600 W (2 x 300W bulbs) |
| LAMP TYPE: | Par 56 NSP | Par 56 NSP |
| STAND MOUNT SIZE: | 1 3/8-inch round | 1 3/8-inch round |
| CONTROL CABLE: | XLR | XLR / 1/4-inch on/off footsw |
| DIMENSIONS (WxHxD inches/cm): | 40 x 16 x 17 / 102 x 41 x 43 | 20.5 x 16 x 17 / 54 x 41 x 43 |
| WEIGHT (lbs/kg): | 40 / 18 | TBA |

| LP-608 | 15mV/pA 9-36.5 dB = 1V/pA |
|---|---|
| OUTPUT CHANNELS: | 8 (2 x 4) |
| PRESET SCENES: | 6 |
| EFFECTS: | 6 |
| AUDIO INPUT: | 1 to 100 volts |
| MIDI INPUT: | accepts channels 1 to 16 |
| DIMENSIONS (WxHxD inches/cm): | 22 x 2.3 x 10 / 56 x 6 x 25 |
| WEIGHT (lbs/kg): | 18 / 8 |

*Specifications subject to change without notice.*

# Studio Monitors

## YSM1P-2
### Powered Studio Monitor

The YSM1P Series Two is a compact, active, near-field studio monitor designed to accurately reproduce source material with a clarity and bass response that you would expect to hear only in a much larger speaker enclosure.

Driven by an integrated bi-amped power module capable of delivering 85 watts of power to the 6.5-inch woofer and an additional 30 watts to the 1-inch dome tweeter, the 115 watt YSM1P Series Two is the ideal monitor solution for virtually any home or project studio application.

Built for maximum flexibility, the YSM1P Series Two offers user selectable tone shaping, allowing the cabinet response to be tailored for its location, (i.e., full space for use centered in the room, 1/2 space for use against a flat wall, or 1/4 space for use in tight corners). Additional controls include a +9/-6dB input trim, high frequency filtering and a user defeatable limiter.

The rock-solid YSM1P Series Two is constructed of 3/4-inch MDF cabinet and baffle with heavy internal bracing and ample internal dampening material to reduce unwanted low frequency rumble. The YSM1P Series Two reproduces source material with near pinpoint accuracy and detail, making it perfect for today's high quality wide frequency response recordings.

## YSM2P
### Powered Compact Studio Monitor

Digital workstations and computer-based direct-to-drive recording systems make great demands on your studio monitors. Sharp attack transients, wide dynamic range and wider frequency responses can be punishing on any monitor system not up to the task. Often the best solution for today's home and project studios is an active monitor system, like the Yorkville YSM2P active studio monitor.

The YSM2P is a compact, bi-amplified, active, near-field studio monitor designed to accurately reproduce the signal from a recording and mixing chain without contributing sonic coloration. A 1-inch domed Mylar tweeter and 5.25-inch low-resonance woven laminate cone woofer deliver maximum clarity and smooth low frequency response. It reproduces timbres with near pinpoint accuracy and produces pristine tone, which defines the finest details and harmonics of the input signal.

The YSM2P is the ideal near-field monitor for midi rooms, 5.1 surround suites, post-production facilities, writing rooms or for use with any of the 'all in one' digital recording stations available today.

***Studio Monitor Specifications:***

| Model | YSM1P-2 | YSM2P |
|---|---|---|
| System Type | 2-Way Studio Reference Monitor | 2-Way Studio Reference Monitor |
| Active or Passive | Active Bi-amplified | Active Bi-amplified |
| Program Power (watts) | 115 | 46 |
| Bi-ampable | Self Powered | |
| Bi-amp Operation Only | Yes | |
| Sensitivity (dB @1watt/1m) | 90 | |
| Frequency Response (Hz +/- 3db) | 40 - 20k | 70 - 19k |
| Crossover Frequency (Hz) | 2500 | 2000 |
| Driver Configuration | 1 inch, 6.5 inch | 1 inch, 5.25 inch |
| HF Driver(s) | 1 inch Soft (Silk) Dome<br>Medium Viscosity Ferrofluid Cooled | 1 inch Polyester Dome<br>Medium Viscosity Ferrofluid Cooled |
| HF Program Power (watts) | 30 | 14 |
| HF Protection | Tweeter Overpower | Tweeter Overpower |
| LF Driver(s) | 6.5 inch Foam Surround | 5.25-inch Woven Laminate cone |
| LF Program Power (watts) | 85 | 32 |
| LF Protection | Woofer over-excursion | Woofer over-excursion / Thermal |
| Shielding | Dual Magnet on Woofer and Tweeter | Bucking Magnet |
| Total Power (watts) | 115 | 46 |
| HF Power Amplifier (watts) | 30 | 14 |
| HF Distortion | less than 0.05% | less than 0.05% |
| LF Power Amplifier (watts) | 85 | 32 |
| LF Distortion | less than 0.05% | less than 0.05% |
| Cooling Scheme | Passive | Passive |
| Power Cable | Yes (Removable) | Yes (Removable) |
| Power Switch | Yes | Yes |
| Inputs - 1/4" Jacks / XLR | 1 (Combi-Jack) | 1 (TR$) / 1 XLR |
| Input Sensitivity (Vrms Sine) | 1.0 | 0.25 |
| Level Controls | Input Trim (+9/-6dB) | Input Trim (+9/-6dB) |
| Limiter | On/Off Switch | |
| LED Indicators | Clip-Red, Power-Blue Front Mounted | Power-Green Back Mounted |
| Other Controls / Features | Environmental Processor w/ Four Dip Switches<br>HF Reflection Optimization +/-2dB boost/cut 10-20kHz<br>LF Efficiency Factor +/- 2dB boost/cut 20-80Hz /<br>Full Space / 1/2 Space / 1/4 Space | |
| Enclosure Materials | MDF | MDF |
| Baffle Material | Gray PVC Clad MDF Wood | Gray PVC Clad MDF Wood |
| Port(s) | Tuned 2-inch Cylindrical | 1-inchVented |
| Other Details | - | Shipped in Mirrored Pairs |
| Dimensions (DxWxH inches) | 11 x 10 x 16 | 10.5 x 7.6 x 11.5 |
| Dimensions (DxWxH cm) | 28 x 25 x 41 | 26.6 x 19.4 x 29.2 |
| Weight (lbs / kg) | 25 / 11.5 | 12 / 5.4 |

*Specifications subject to change without notice.*

# Inspiration + Innovation = Common Sense Solutions.

Pete Traynor and Jack Long joined forces in 1963. Jack, then the owner of a successful Toronto area music store, saw promise in Pete, a young bass player with unique skill as a repair man. Later, as it turned out, Pete could design things as well. His creative and innovative solutions to everyday problems faced by musicians led to some of the most successful products in our history. Some of those original Pete Traynor inventions still have direct descendants in our product line to this day. Products like our powered mixers, wedge monitors, compact lighting systems, and guitar amps with master volume control are all Yorkville innovations.

The products we make are built tough enough for the road, clean enough for the studio, and loud enough for any stage or concert hall. State-of-the-art technology is packaged into easy to use, great sounding products that are made for making music. Since the goal is often to be a musician, not a technician, our products have the features you need and the controls are always well thought out and clearly labeled.

Effective simplicity was the goal we set for our new line of amplifiers. Active filtering circuits allow effective tonal shaping with fewer knobs and switches. You get the sound you want quickly and easily from a Yorkville amp. Inside we use high-grade glass epoxy circuit boards, low noise metal film resistors and phone jacks with gold plated contacts. Outside you will find heavy-gauge curved metal speaker grilles, plywood construction and rugged carpet covering. Add rigorous factory testing and our unbeatable two year (EVEN IF YOU BREAK IT!) Unlimited Transferable Warranty* and you can be sure you've got what you need to reliably sound your best for years to come.

In keeping with our philosophy and reputation as an industry leader, Yorkville has a significant Internet presence. Check out our frequently updated web site at www.yorkville.com. It contains a wealth of information about our products, links to other valuable sites, and related industry information we have gathered for your convenience and education. We firmly believe that a well-educated customer will appreciate the features and benefits of our products.

*Warranty valid in USA and Canada only.

# Yorkville Innovations

Since 1963, Yorkville has been a leader in design and innovation. You may be surprised to find that Yorkville first developed some of the products that are now considered standards in our industry. The first commercially available 24 channel mixer, the first tube guitar amp with a master volume control, the first commercially produced graphic EQ and the first wedge monitor are all Yorkville inventions. Shown here are some of Yorkville's most significant innovations along the long road that is our history.

Yorkville amplifiers and mixers are covered by the best warranty in the business – a two-year, unlimited (even if you break it!), transferable warranty (valid in USA and Canada only). See our warranty card or web site for details.

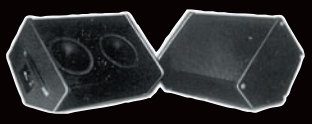
**MX24 • circa '69**
Our first 24 channel mixer, as well as the first ever, commercially produced, 24 channel sound reinforcement board.

**YBA3a • circa '68**
The most powerful bass amplifier of its day. This fan-cooled, portable package pumped out 250W.

**EQ-1 • circa '73**
The first commercially produced PA graphic equalizer.

**YSC-1 • circa '63**
The first commercially produced PA column. It contained six full range 8" drivers and was designed to be easily transportable.

**LS-1 • circa '67**
The first commercially produced portable lighting system. It featured six colored flood lights and a switch console.



**YM-1 • circa '68**
The first wedge-style stage monitor. It gave the user a choice of 3 facing angles (and upright mounting) and had a built-in volume control.

**YSC-4 • circa '66**
The first stand-mounted portable PA enclosure. It used four 12" full range drivers.

Printed in Canada

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